

AAB15431

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

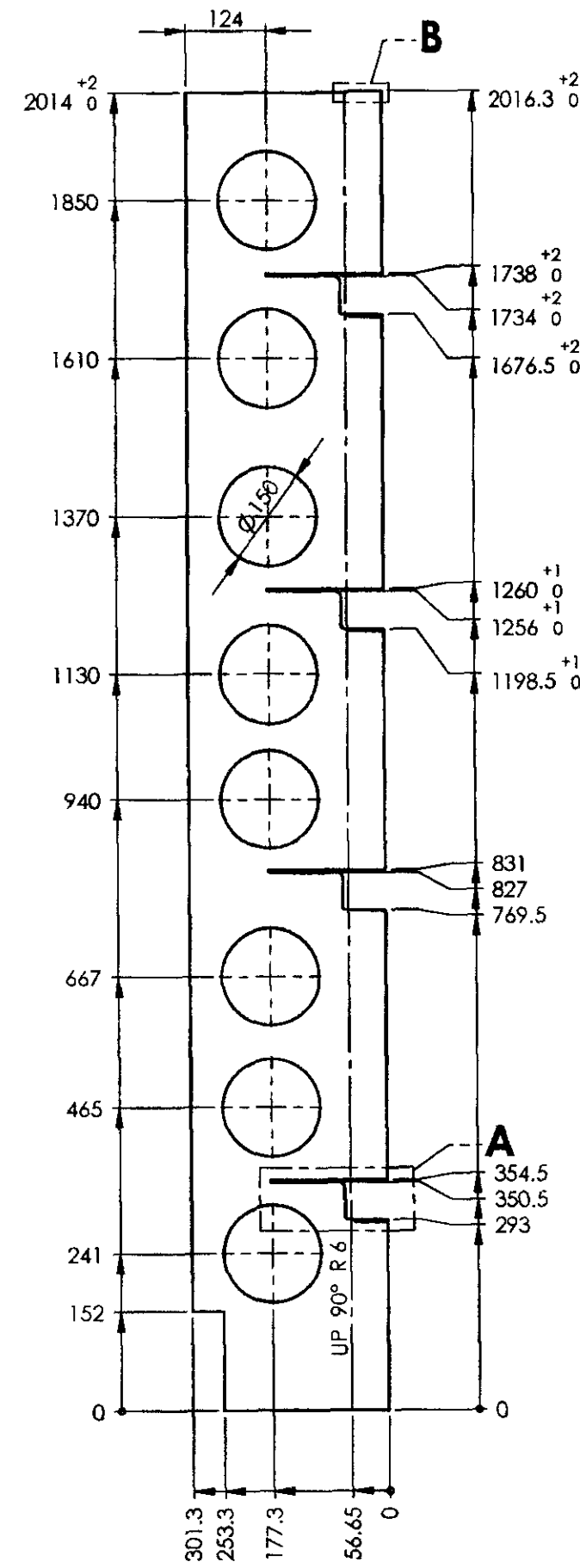
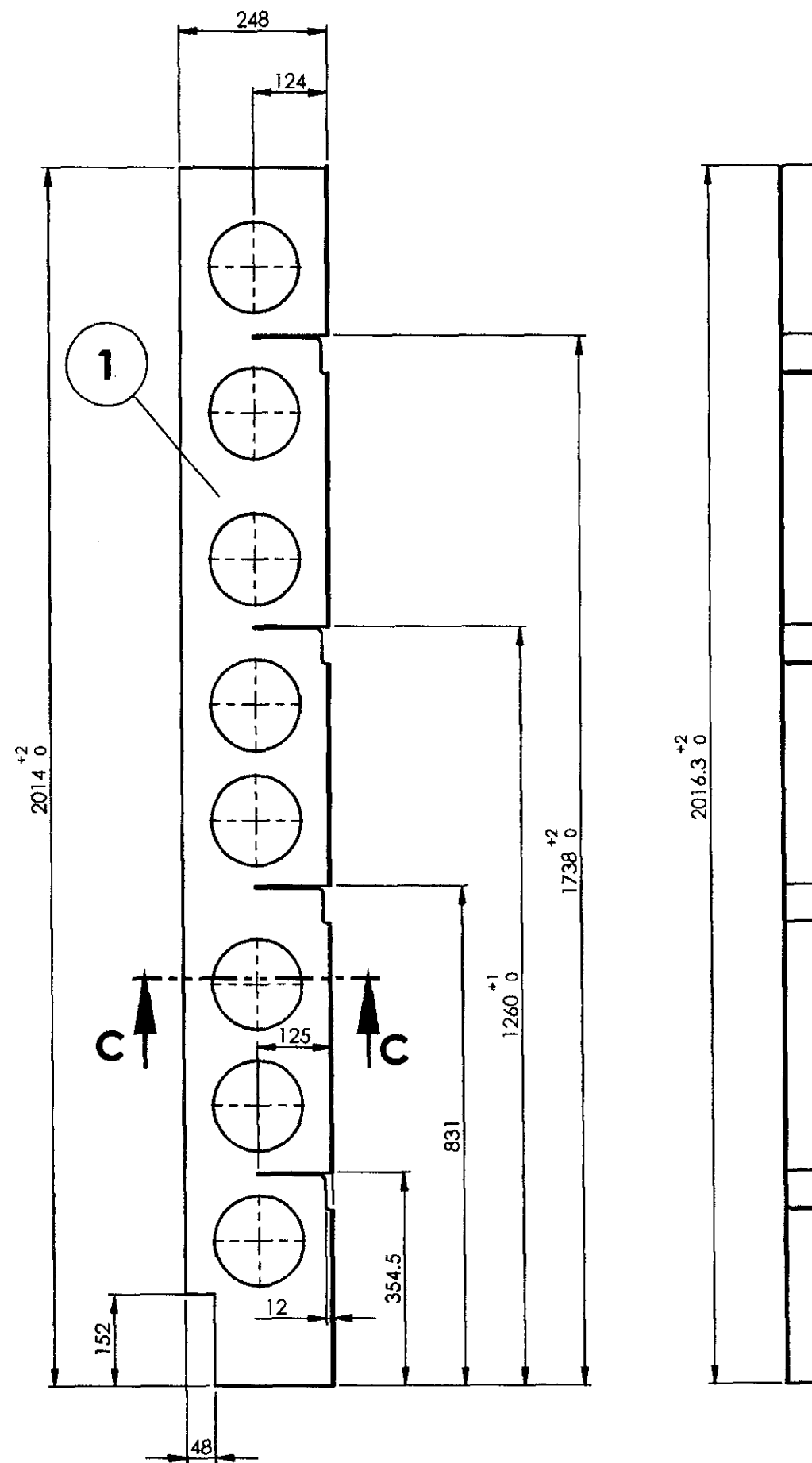
① ROUGH CLEANED
①⑤ BURRS REMOVED
①⑧ CHAMFERED

REVISIONS

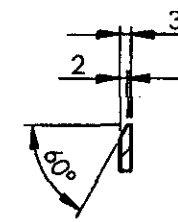
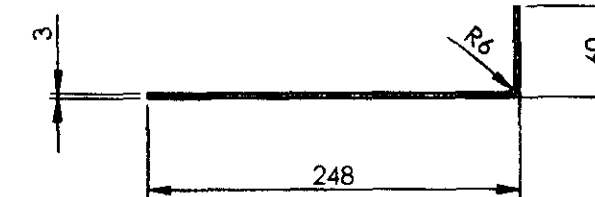
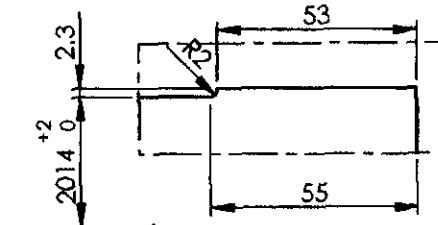
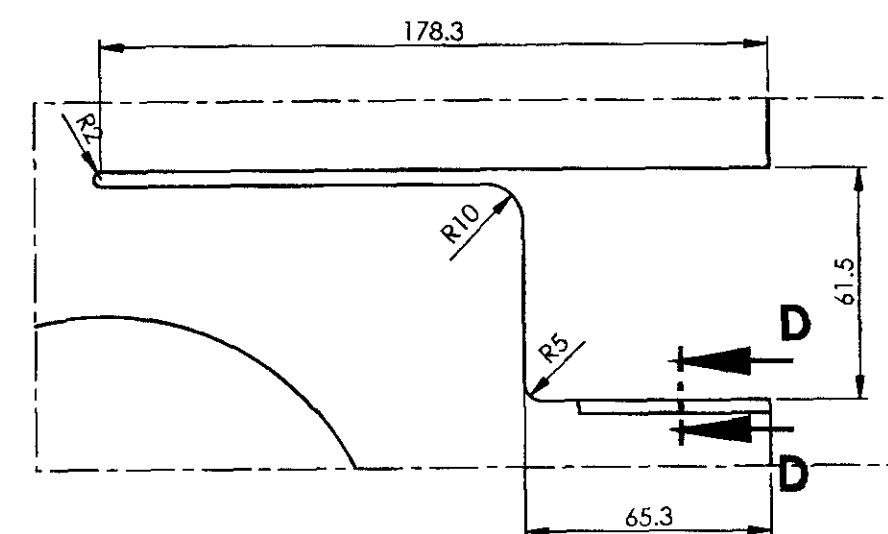
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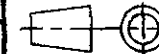
ZONE

DESCRIPTION

APPROVED &
DATE

DEVELOPMENT VIEW

SECTION D-D
SCALE 1 : 2SECTION C-C
SCALE 1 : 5DETAIL B
SCALE 1 : 2DETAIL A
SCALE 1 : 2

1		3 x 302 x 2016	1		RDSO/SPEC. C- K201 X2 Cr Ni 12	10.583	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION			SURFACE AREA IN Sq.m.: 0.911			WT/ASSY IN Kgs: 10.583	
RAM PILLAR					SCALE 1:10	SSE/D	<i>S. Induranga Rao</i>
						CHD	
					ALT	ALTD	
						DRN	H. Irshath Ahamed
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			AAB15431
INTEGRAL COACH FACTORY, CHENNAI - 600038							

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS813-1986.

REF.DRG.NO.

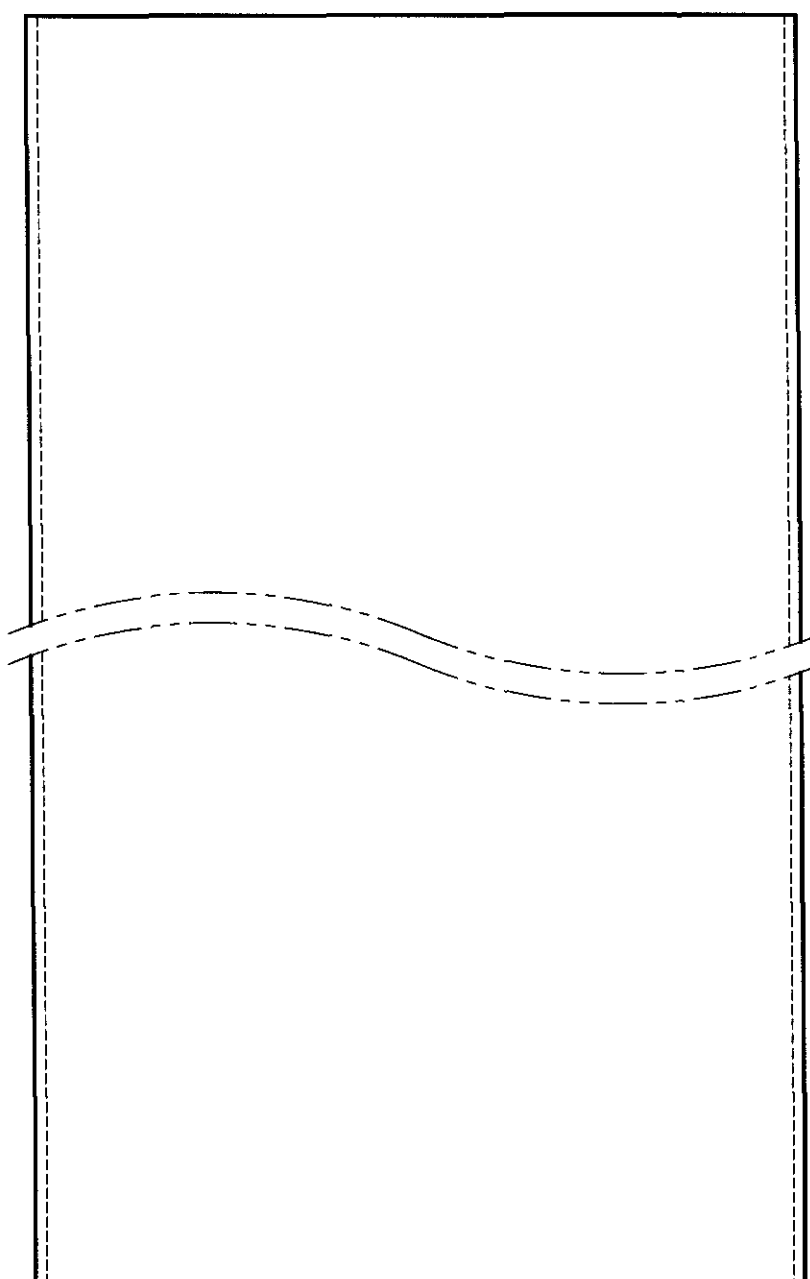
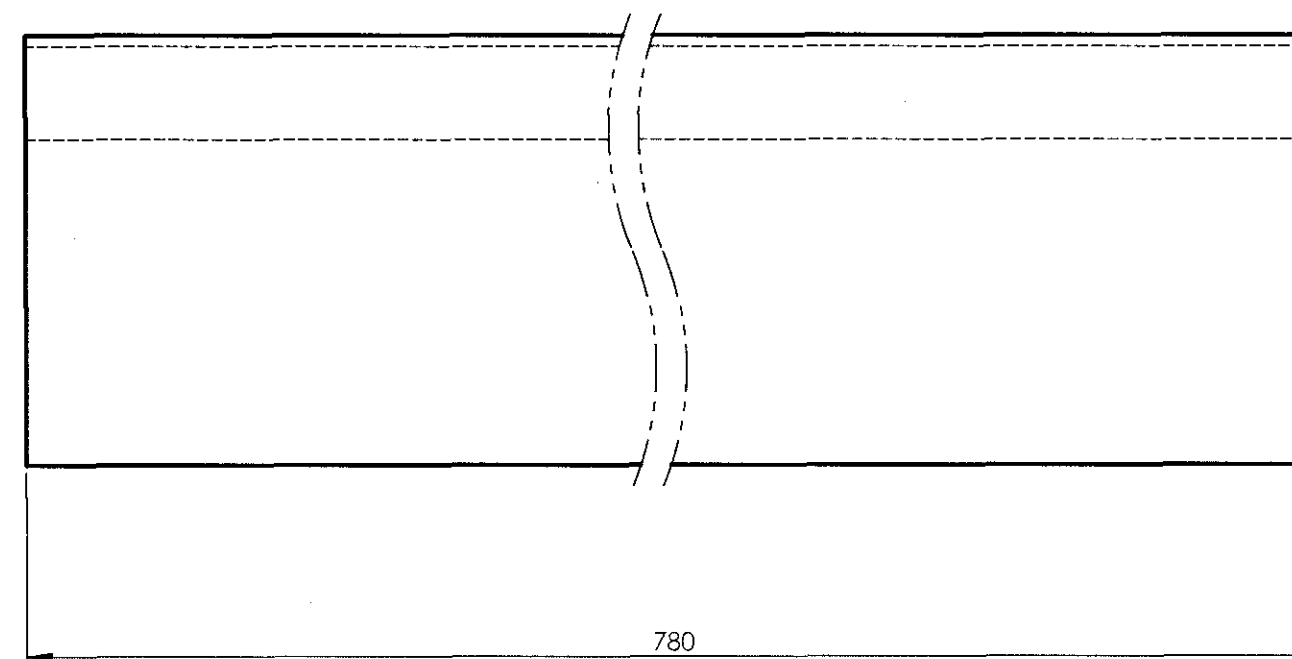
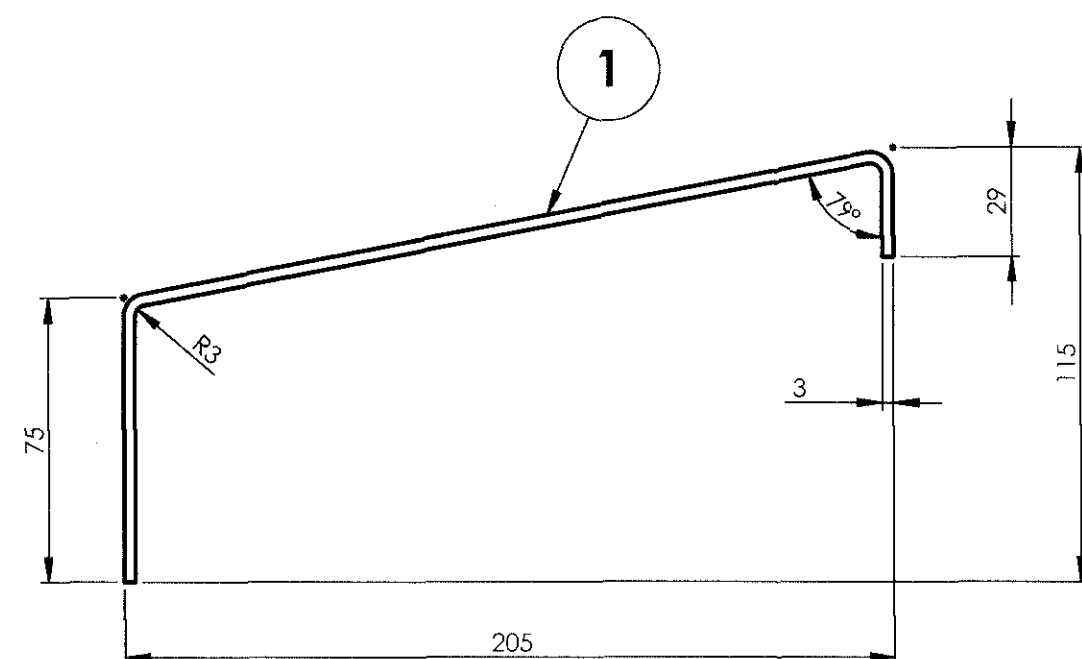
26-08-19
DATE OF LATEST ALT.17-6-19
DATE OF FIRST ISSUE

AME/SME



AAB15841

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



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1	CHANNEL	3X303X780	1		SS-409M	5.66	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
CHANNEL					SCALE 1:5	SSE/D	A = 
						CHD	
					ALT	ALTD	
						DRN	dinesh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAB15841		A2

REF.DRG.NO.-

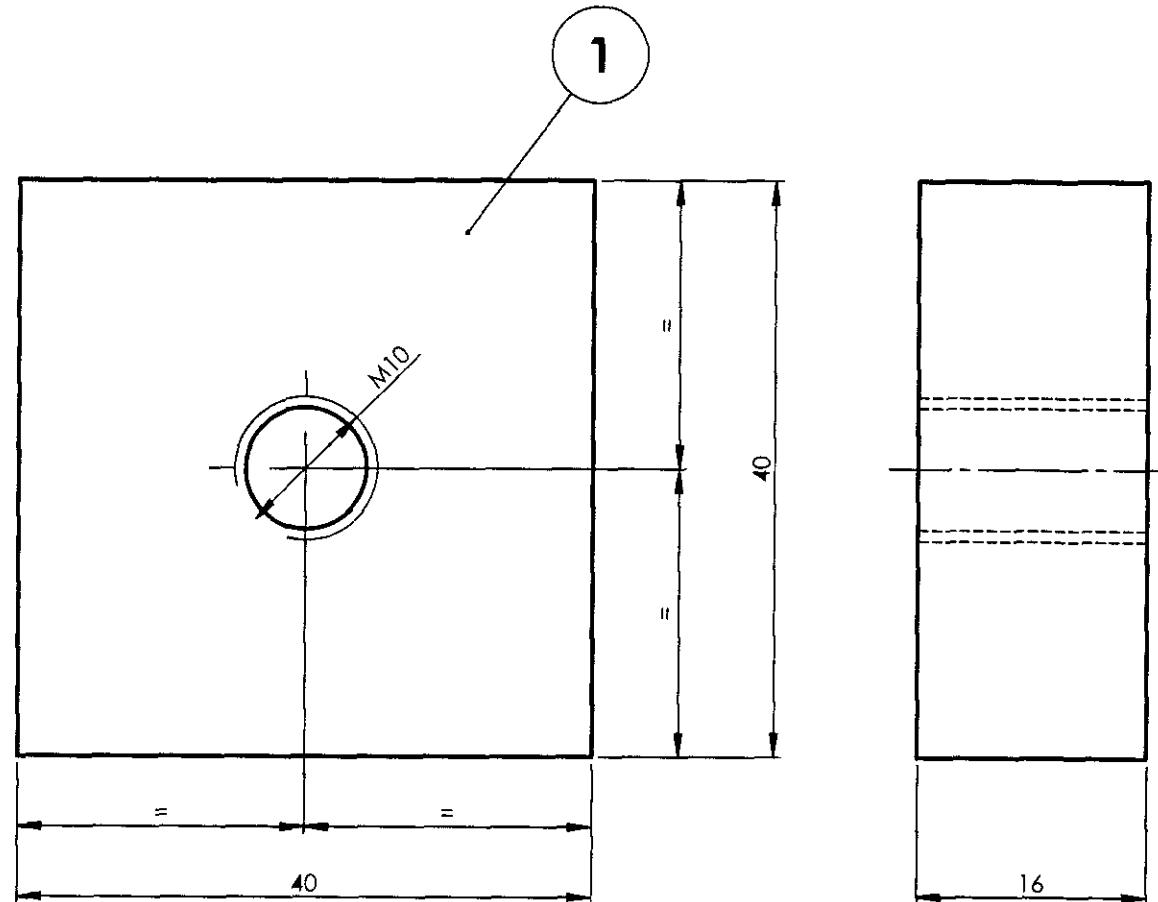
-	13/07/20	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1		2		3		4		5		6		7		8																																																																
AAB15888				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																						
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION																																																																		
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED		APPROVED & DATE																																																																						
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div><div>1</div><div>630</div></div> <div><div>3</div><div>43</div><div>R3</div><div>75</div></div> <div>ISOMETRIC VIEW</div>																																																																														
<table><tr><td>1</td><td>ANGLE</td><td>3x113x630</td><td>1</td><td></td><td>RDSO SPEC C-K201 X2 Cr Ni 12</td><td>1.71</td><td></td></tr><tr><td>QTY</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="4">GROUP: 1-5 End Construction</td><td colspan="2">SURFACE AREA IN Sq.m.:</td><td colspan="2">WT/ASSY IN Kgs:</td></tr><tr><td colspan="6">ANGLE</td><td>SCALE 1:5</td><td>SSE/D CHD</td></tr><tr><td colspan="6"></td><td>ALT.</td><td>ALT.D</td></tr><tr><td colspan="6"></td><td>DRN</td><td>B.Suresh</td></tr><tr><td colspan="4">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td colspan="2">AAB15888</td></tr><tr><td colspan="4">INTEGRAL COACH FACTORY, CHENNAI - 600088</td><td colspan="2"></td><td colspan="2">A3</td></tr></table>															1	ANGLE	3x113x630	1		RDSO SPEC C-K201 X2 Cr Ni 12	1.71		QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:		ANGLE						SCALE 1:5	SSE/D CHD							ALT.	ALT.D							DRN	B.Suresh	INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAB15888		INTEGRAL COACH FACTORY, CHENNAI - 600088						A3	
1	ANGLE	3x113x630	1		RDSO SPEC C-K201 X2 Cr Ni 12	1.71																																																																								
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INTEGRAL COACH FACTORY, CHENNAI - 600088						A3																																																																								
1		2		3		4		5		6		7		8																																																																
REF.DRG.NO.-		DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																																																																								
		27-11-2020																																																																												

AAD15485

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

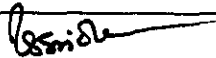
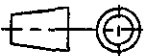
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



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ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.-

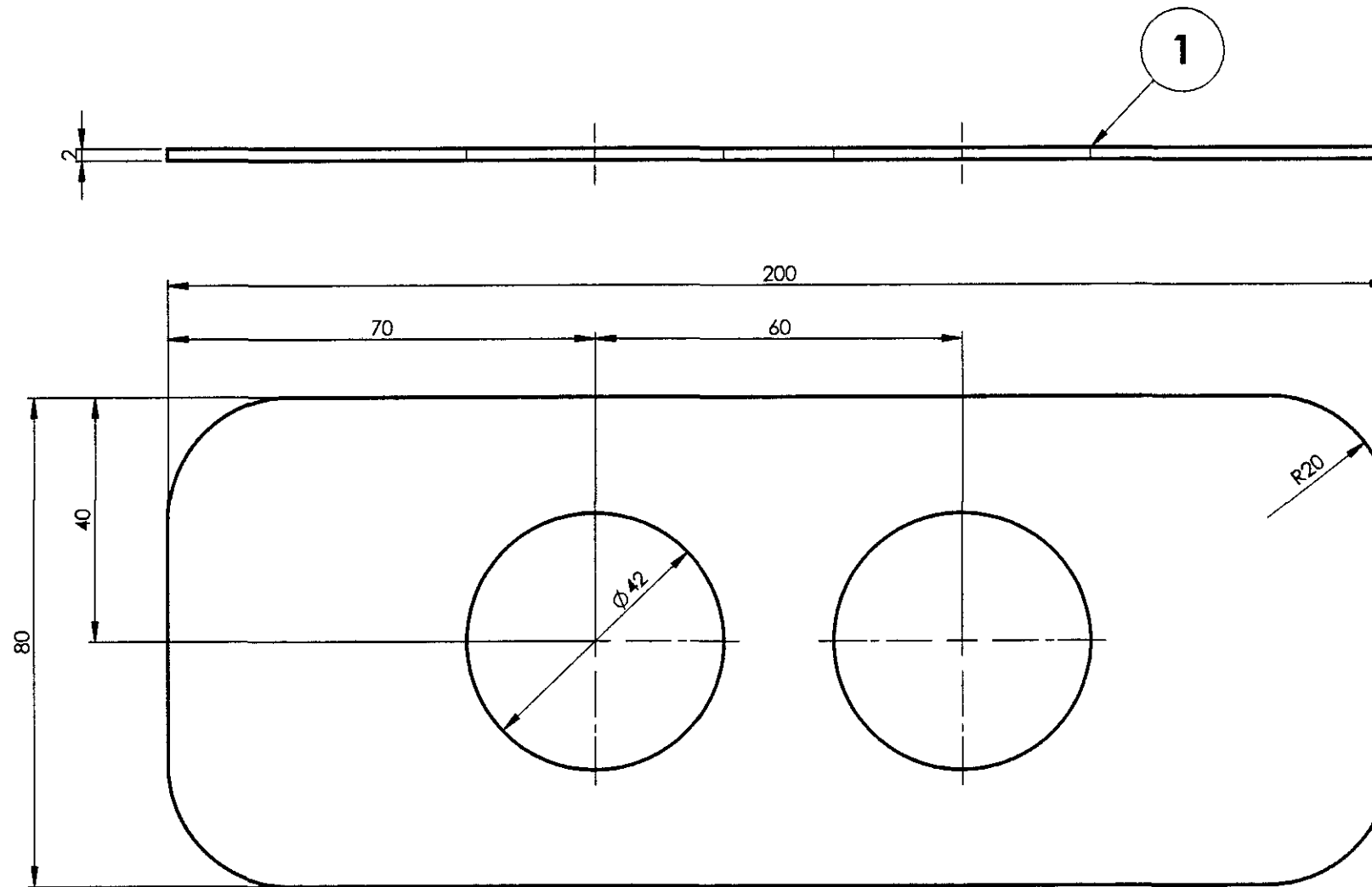
-	8 -02-2023	V. Suresh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	A/E/SME


1	EARTHING BLOCK	16x40x40	1		SS-304	0.20	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
EARTHING BLOCK					SCALE	SSE/D	
					2:1	CHD	
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1	AAD15485	
							A3

AAD15711

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			

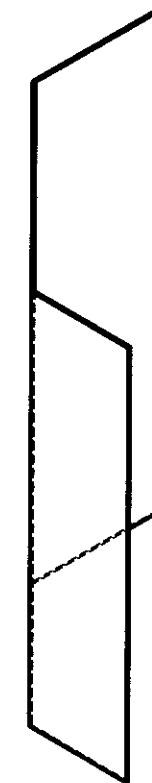
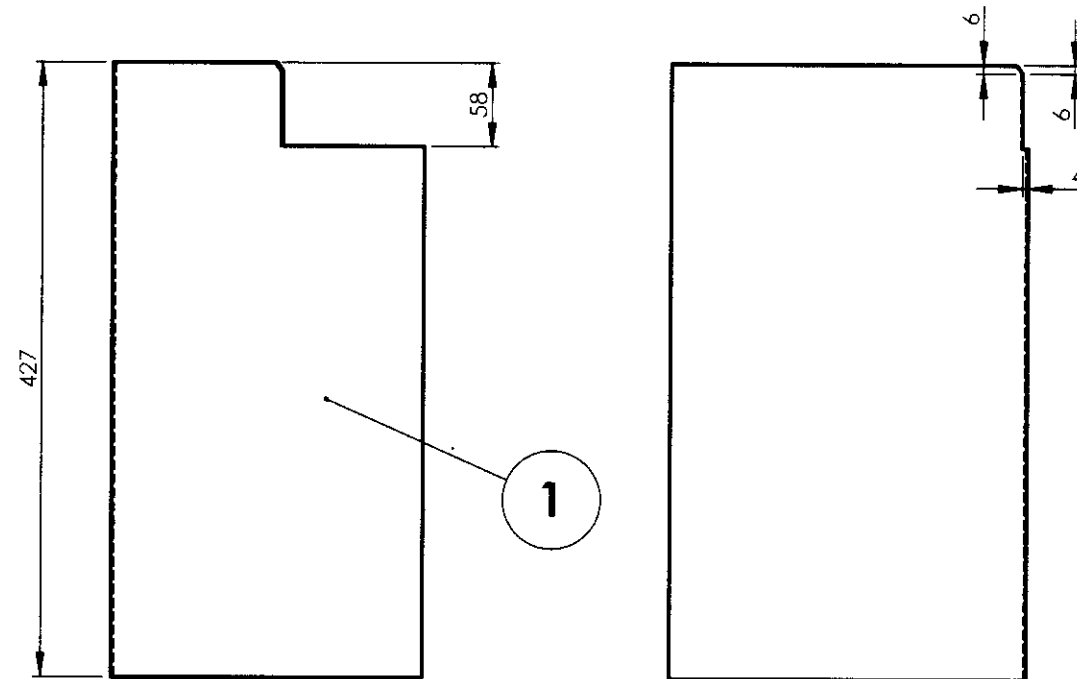


1	SUPPORT FOR CONDUIT	2 x 80 x 200	1		RDSO SPEC C- K201 X2 Cr Ni 12	0.21	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
SUPPORT FOR CONDUIT					SCALE	SSE/D	L Panduranga Rao
					1:2	CHD	
					ALT.	ALTD	
						DRN	H. Irshath Ahamed
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAD15711		A3

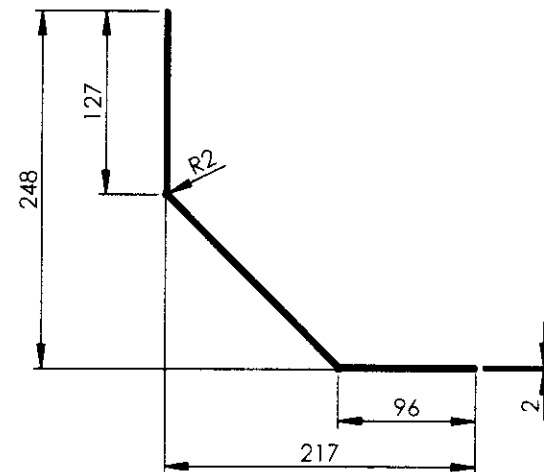
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▽▽ FINISH MACHINED	⊖⊖ BURRS REMOVED.
▽▽▽ FINE FINISH MACHINED	⊖⊖⊖ CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



ISOMETRIC VIEW



1	ELEC COUPLER COVER	2 x 392 x 427	1		RDSO SPEC C-K201 X2 Cr Ni 12	2.59	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
ELEC COUPLER COVER					SCALE	CHD	
					1:5	CHD	
					ALT.	ALT.	
						DRN	SURESH B
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		A3	
INTEGRAL COACH FACTORY CHENNAI 600038						AAD15725	

05-09-2027		
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

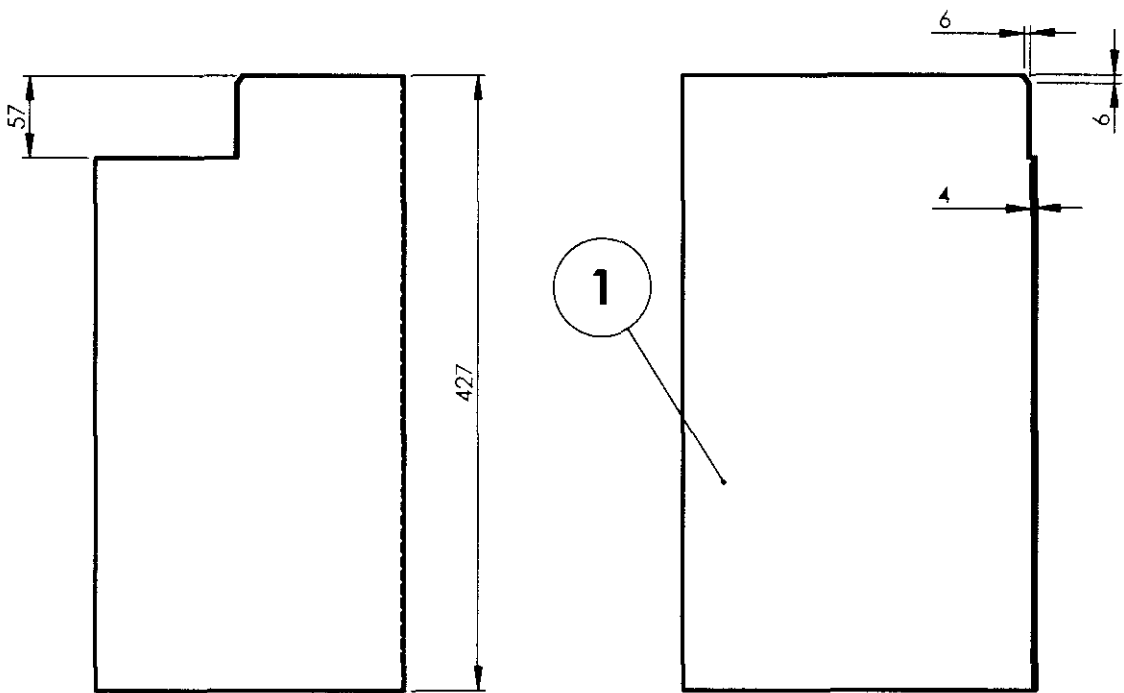
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

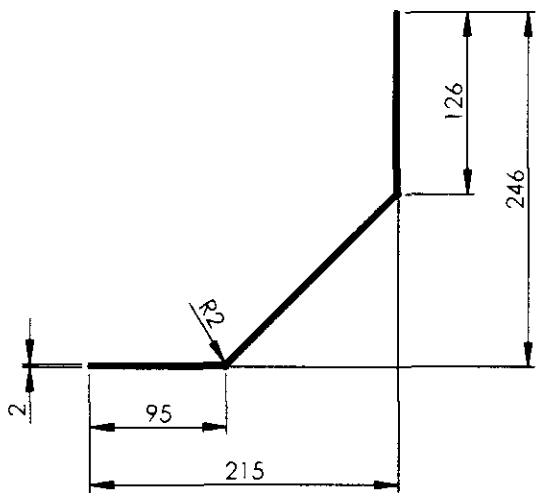
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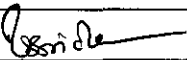
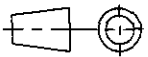
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



1



1	ELEC COUPLER COVER	2 x 392 x 427	1		RDSO SPEC C-K201 X2 Cr Ni 12	2.57	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ELEC COUPLER COVER					SCALE	CSE: D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	SURESH B
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY CHENNAI 600038				AAD15726			A3

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	05-09-2023	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

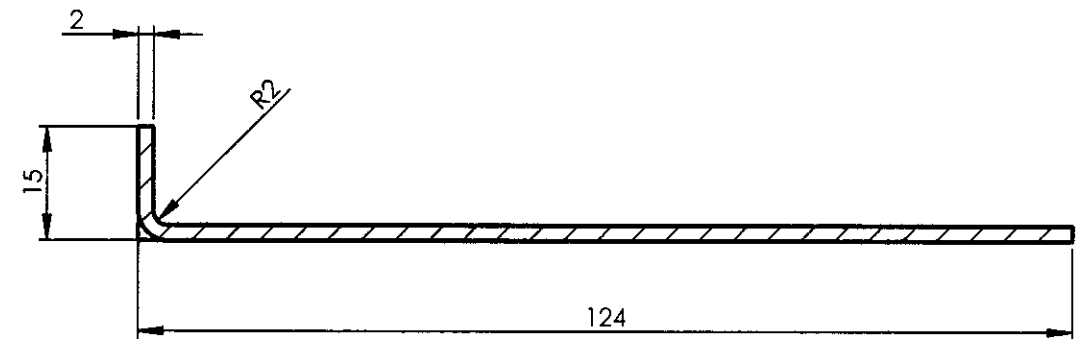
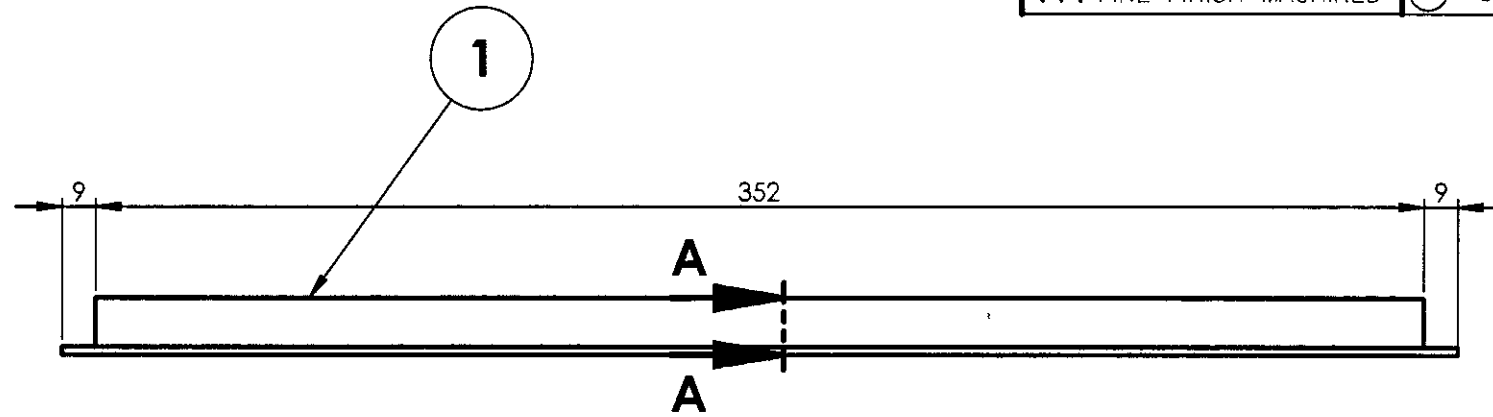
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AAD15843				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED									
<div><div><div><div><div><div>1</div></div></div><div><div>392.5</div><div>210</div><div>80</div><div>220</div></div><div><div>743</div><div>20°</div></div></div><div><div>15</div><div>122</div><div>R2</div><div>344</div><div>122</div><div>15</div><div>R3</div></div></div></div> <div><div>ISOMETRIC VIEW</div></div>															
<div><div><div><div>1</div><div>BASE PLATE FOR COUPLER SOCKET</div><div>3x606x743</div><div>1</div><div>RDSO/SPEC C-K201 X2CrNi12</div><div>6.123</div></div><div><div>QTY</div><div>DESCRIPTION</div><div>DIMENSIONS</div><div>ITEM NO.</div><div>REF. DRGS</div><div>MATL.SPEC.</div><div>WT/UNIT IN KGS</div><div>REMARKS</div></div><div><div>GROUP: 1-5 End Construction</div><div>SURFACE AREA IN Sq.m.:0.773</div><div>WT/ASSY IN Kgs:</div></div><div><div>BASE PLATE FOR COUPLER SOCKET</div><div>SCALE 1:5</div><div>ALT.</div><div>SSE/D</div><div>CHD</div><div>ALTD</div><div>DRN</div><div>3D: MAHESH</div><div>2D: KUNTI THAKUR</div></div><div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div><div>SHEET 1 OF 1</div><div>AAD15843</div><div>A3</div></div></div></div>															
<div><div><div>REF.DRG.NO.-</div><div>17-05-2024</div><div>AME/SME</div></div><div><div>DATE OF LATEST ALT.</div><div>DATE OF FIRST ISSUE</div><div>AME/SME</div></div></div>															
1		2		3		4		5		6		7		8	

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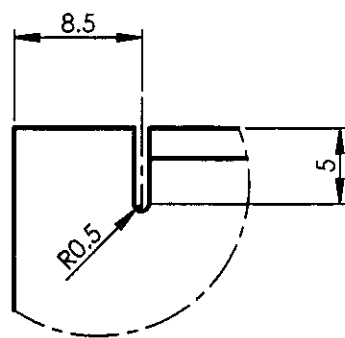
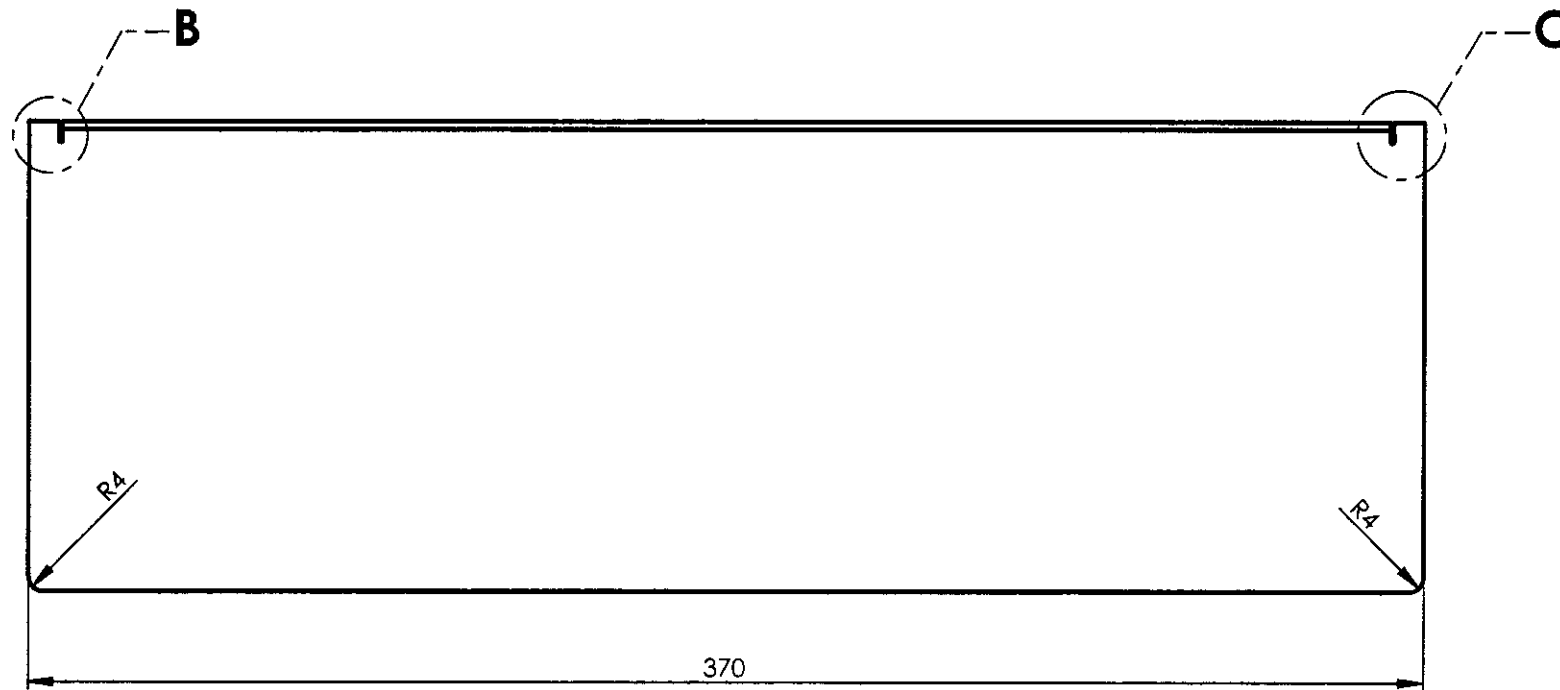
AAD15844

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①s CHAMFERED

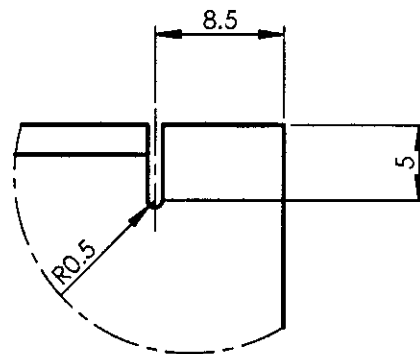
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



SECTION A-A
SCALE 1 : 1



DETAIL B
SCALE 2 : 1



DETAIL C
SCALE 2 : 1

1	CLOSING ANGLE	2x135x370	1		RDSO/SPEC C-K201 X2CrNi12	0.800	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:0.102		WT/ASSY IN Kgs:	
CLOSING ANGLE					SCALE 1:2	SSE/D CHD	<i>Signature</i>
					ALT.	ALTD	
						DRN	3D: MAHESH 2D: KUNTI THAKUR
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAD15844	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

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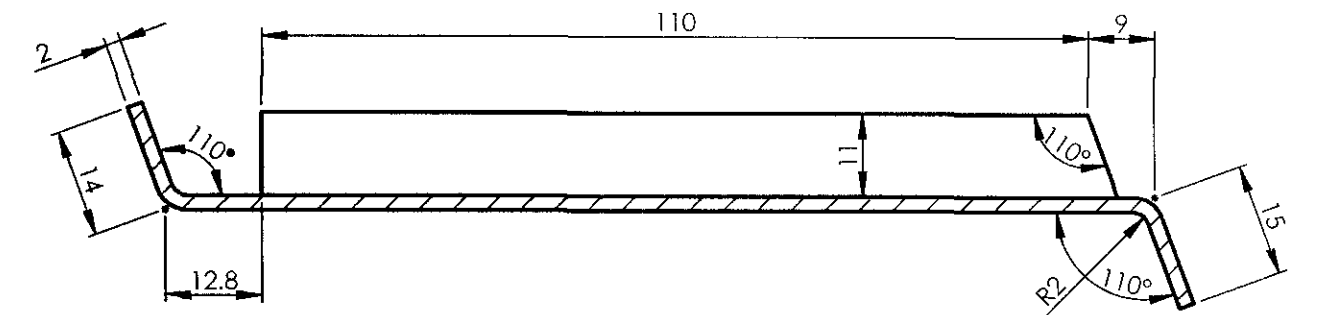
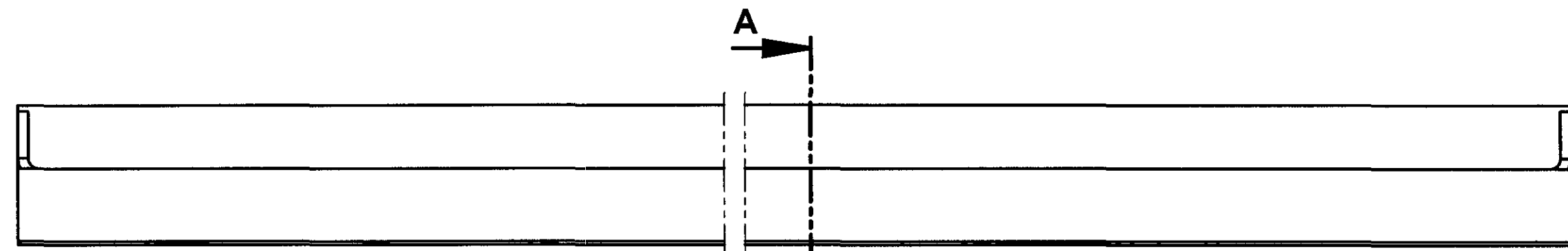
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	17-05-2024	<i>Signature</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

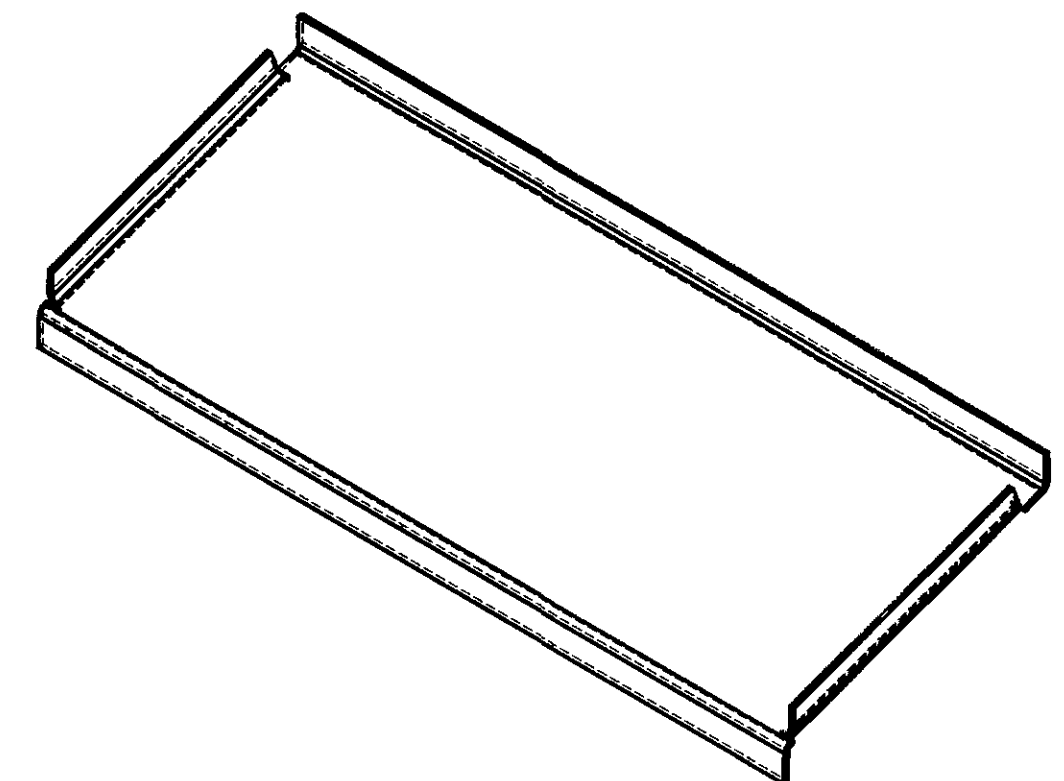
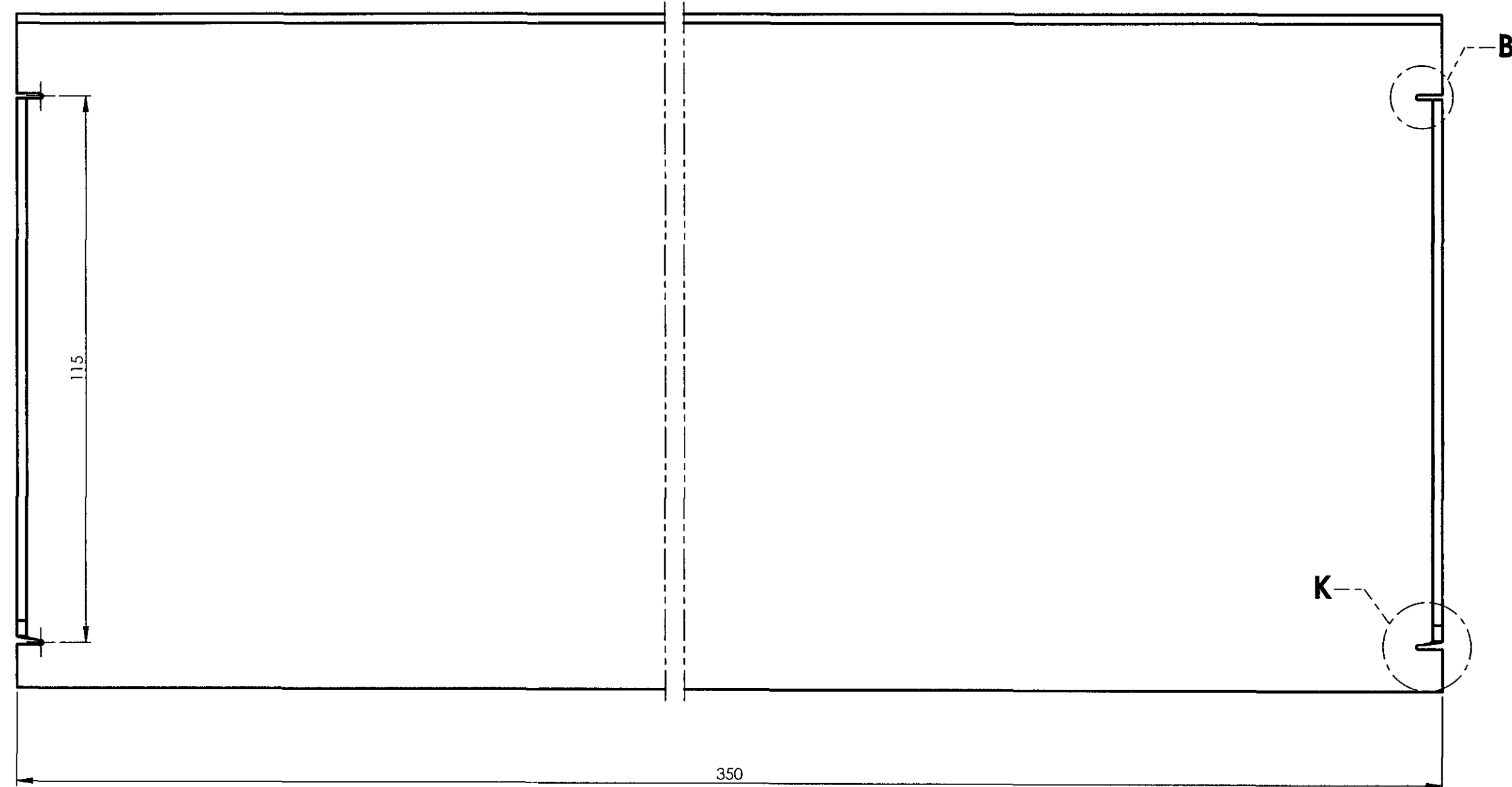
AAD15845

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①① BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①①① CHAMFERED

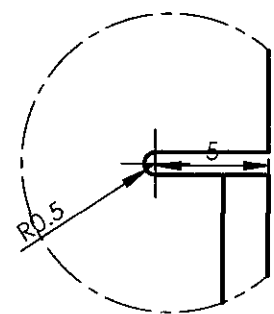
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ALT.	ZONE	DESCRIPTION	APPROVED & DATE



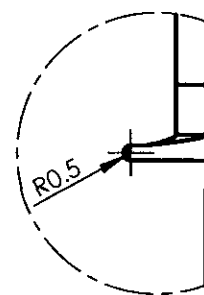
SECTION A-A
SCALE 1 : 1



ISOMETRIC VIEW



DETAIL B
SCALE 3 : 1



DETAIL K
SCALE 2 : 1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001.
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REF.DRG.NO.-

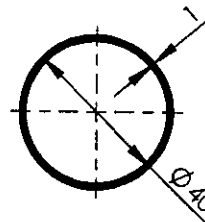
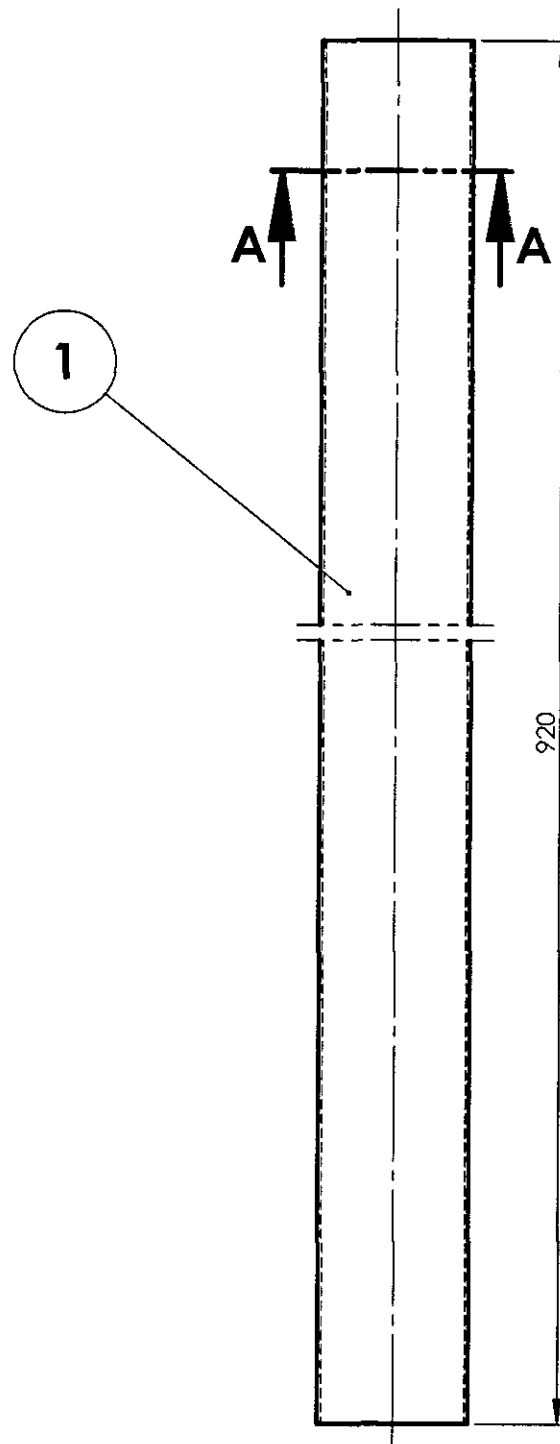
DATE OF LATEST ALT.	17-05-2024	AME/SME
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1	CLOSING ANGLE	3x156x370	1		RDSO/SPEC C-K201 X2CrNi12	0.912	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.: 0.116		WT/ASSY IN Kgs:	
CLOSING ANGLE					SCALE 1:2	SSE/D	
						CHD	
					ALT	ALTD	
					DRN	3D: MAHESH 2D: KUNITHAYUR	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAD15845	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A2	

1		2		3		4		5		6		7		8	
AAD15848				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED		a				CUT AWAY DIMENSION CHANGED FROM 220mm TO 201mm.		[Signature]	
<div><div><div><div><div><div>1</div></div></div><div><div>52.5</div><div>201</div><div>80</div><div>210</div></div><div><div>694</div><div>20°</div></div></div></div><div><div>ISOMETRIC VIEW</div></div><div><div>344</div><div>122</div><div>15</div><div>R2</div><div>R2</div><div>R2</div></div></div>															
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-Q-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY															
REF.DRG.NO.-															
07-11-2024		17-05-2024		[Signature]											
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME											
INDIAN RAILWAY STANDARDS										SHEET 1 OF 1		AAD15848			
INTEGRAL COACH FACTORY, CHENNAI - 600038												A3			
GROUP: 1-5 End Construction SURFACE AREA IN Sq.m.:0.721 WT/ASSY IN Kgs:															
BASE PLATE FOR COUPLER SOCKET										SCALE 1:5		SSE/D CHD		[Signature]	
										ALT. 2		ALTD DRN		MAHESH	
														3D: MAHESH 2D: KUNTILTHAKUR	

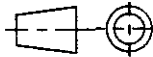
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED.	




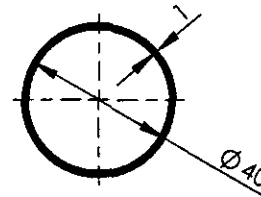
SECTION A-A
SCALE 1 : 2

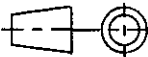
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

1	CONDUIT	1mm THICK xØ40x920	1		IS:17876 X04Cr19Ni9	0.89	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
CONDUIT					SCALE	SSE/D	B 5
					1:10	CHD	
					ALT.	ALTD	MAHESH
					2	DRN	3D: MAHESH 2D: KUNTI THAKUR
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY CHENNAI - 600038					AAD15858		A3

[illegible]

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED.	

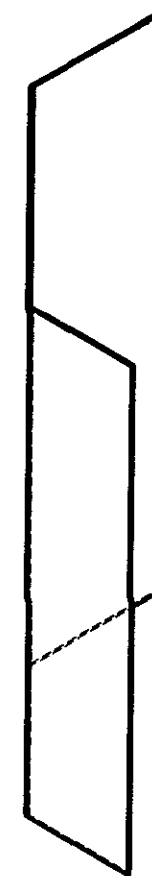
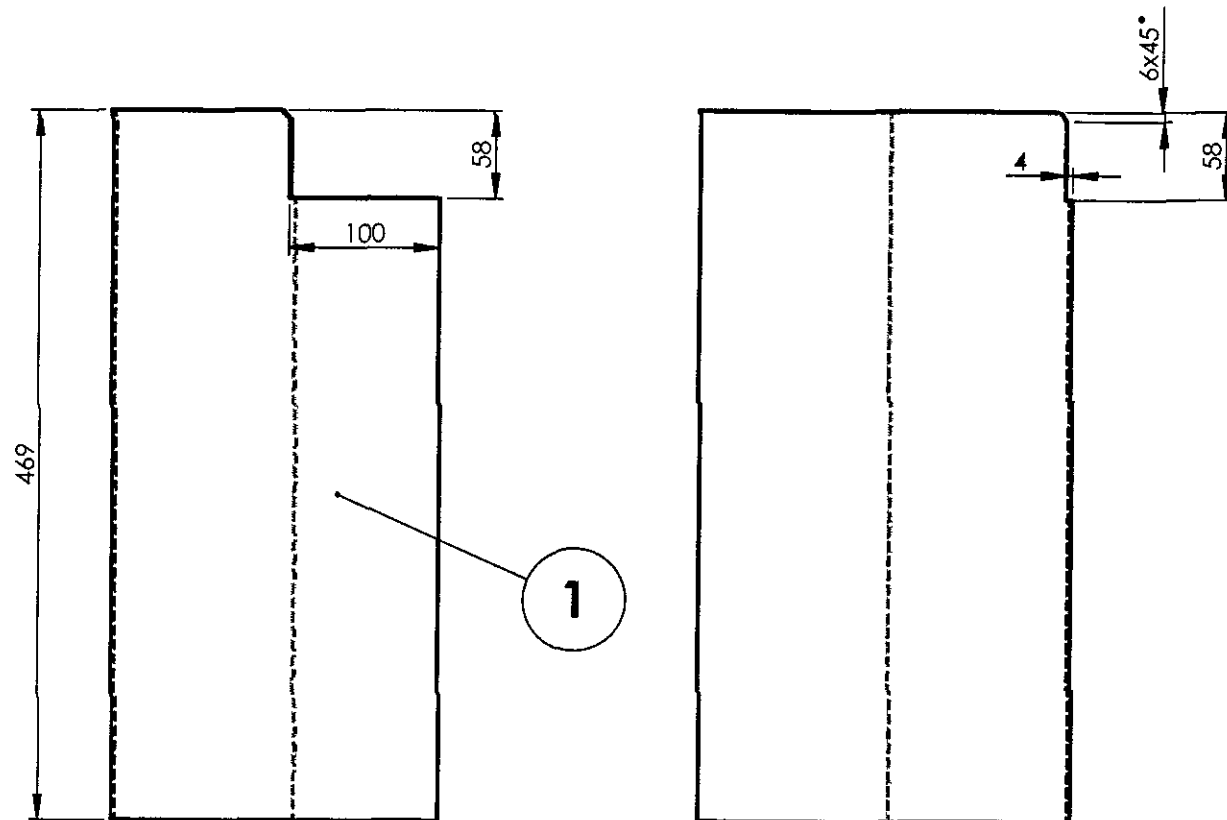


1	CONDUIT	1mm THICK xØ40x700	1		IS:17874 X04Cr19Ni9	0.68	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
CONDUIT					SCALE	SSE/D	B. S. L
					1:2	CHD	
					ALT.	ALTD	MAHESH
					a	DRN	3D: MAHESH 2D: KUNTI THAKUR
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAD15859		A3

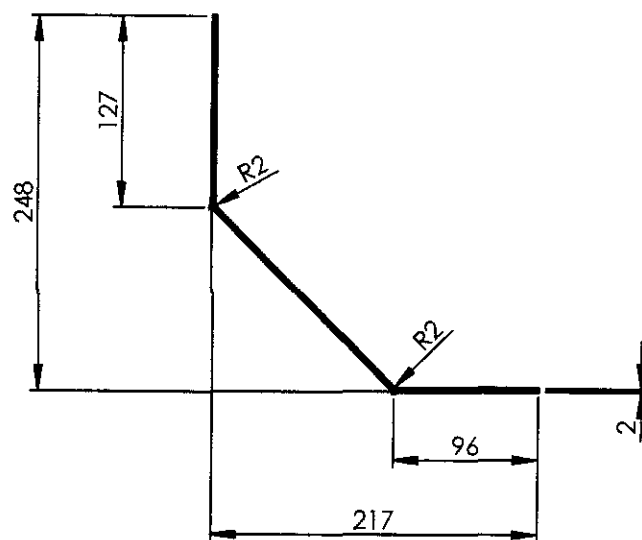
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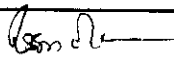
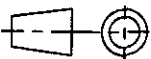
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

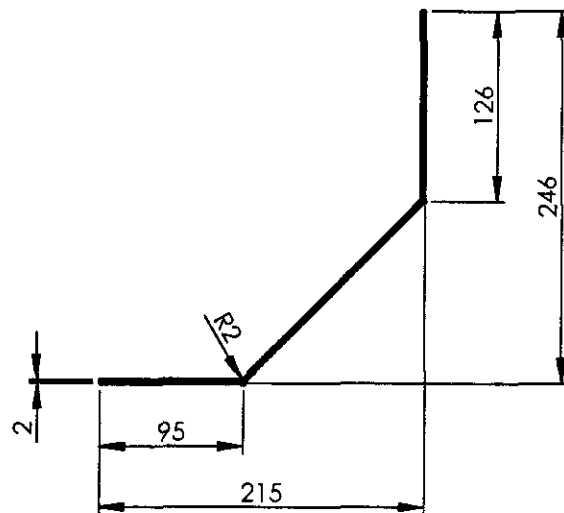
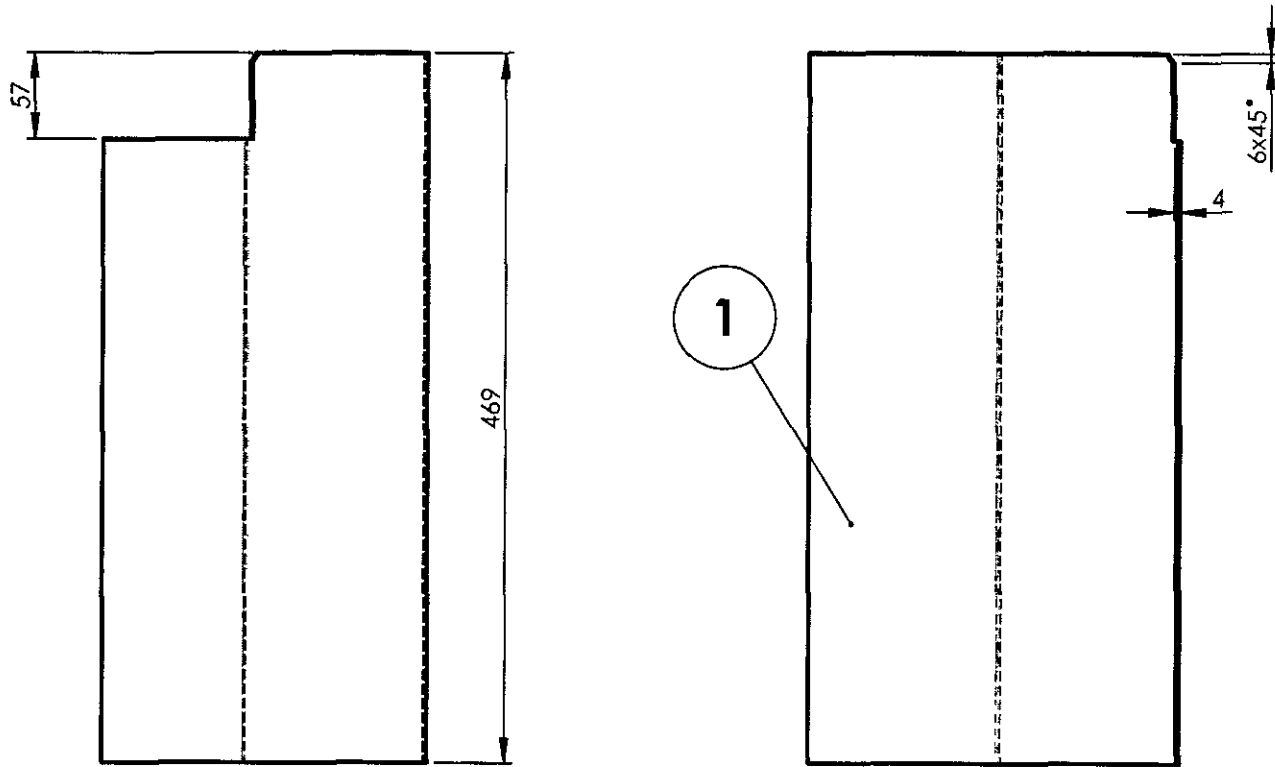


1	ELEC COUPLER COVER	2 x 394 x 469	1		RDSO SPEC C-K201 X2 Cr Ni 12	2.85	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ELEC COUPLER COVER					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
				SHEET 1 OF 1		AAD15876	
						A3	

AAD15877

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①s CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



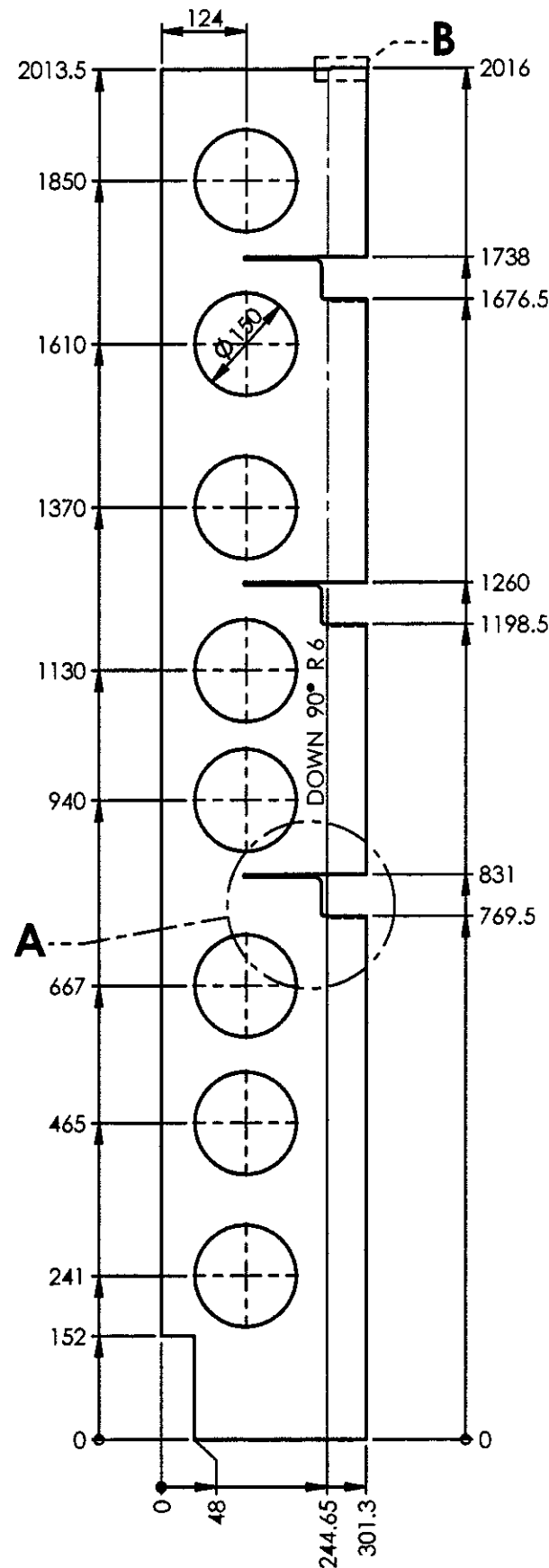
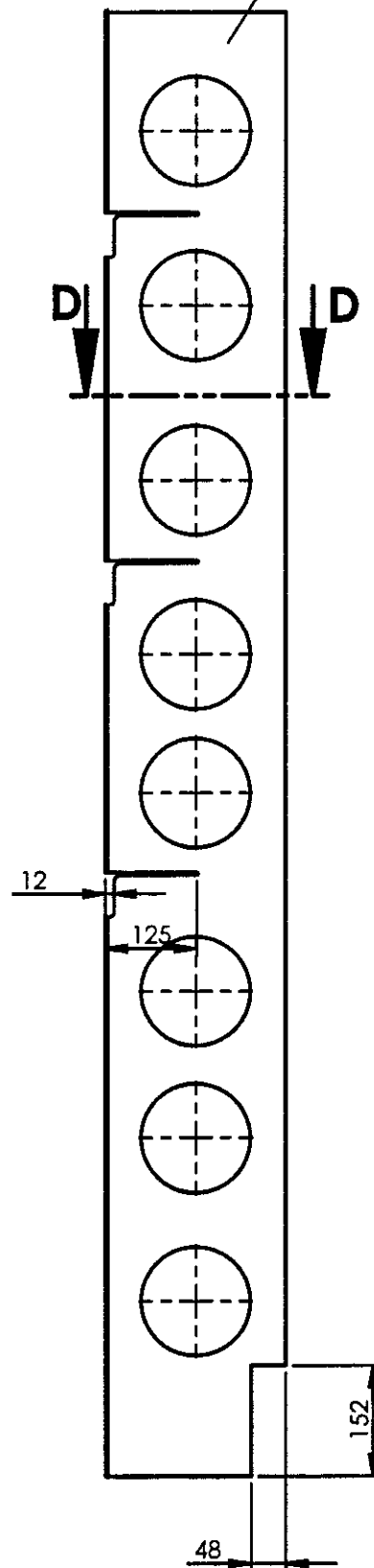
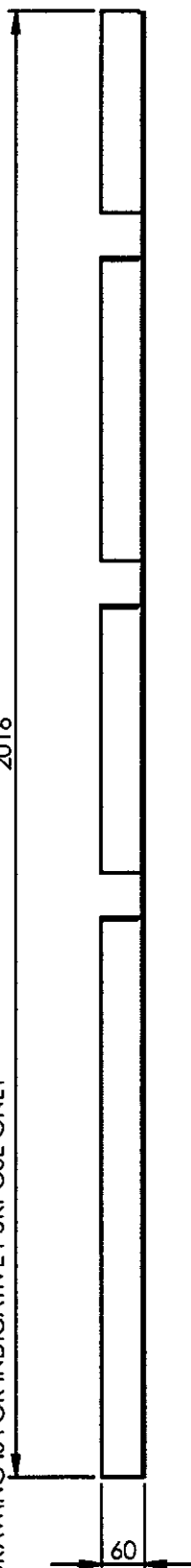
1	ELEC COUPLER COVER	2 x 392 x 469	1		RDSO SPEC C-K201 X2 Cr Ni 12	2.83	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
ELEC COUPLER COVER					SCALE 1:5	SSE/D CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		A3	
INTEGRAL COACH FACTORY, CHENNAI - 600038						AAD15877	
REF.DRG.NO.-		17-05-2024					
DATE OF LATEST ALT.		DATE OF FIRST ISSUE	AME/SME				

AAD15904

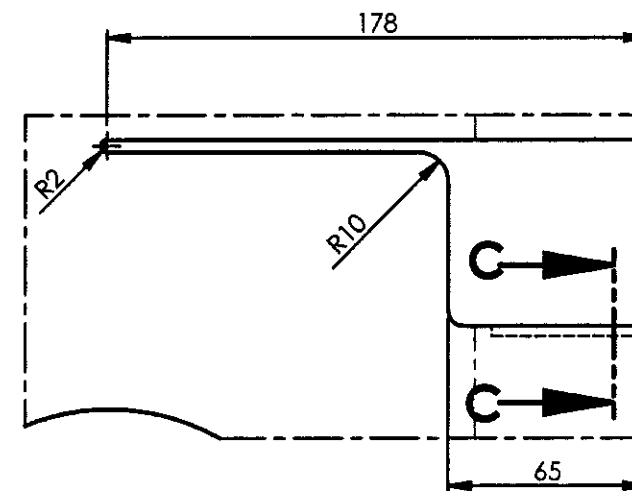
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISION				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			

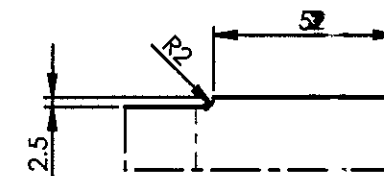
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/STD-9-0-001.
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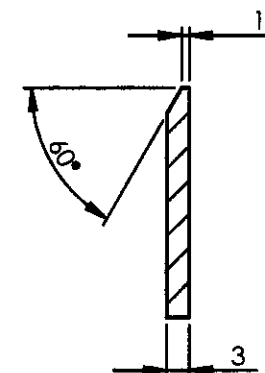
DEVELOPMENT VIEW



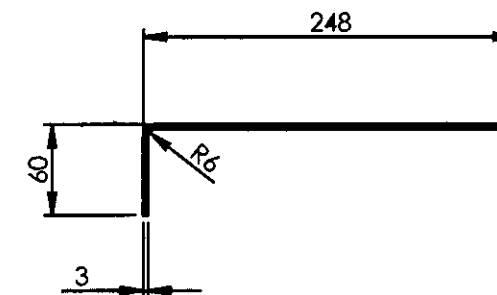
**DETAIL A
SCALE 1 : 2.5**



**DETAIL B
SCALE 1 : 2**



**SECTION C-C
SCALE 1 : 1**



**SECTION D-D
SCALE 1 : 5**



ISOMETRIC VIEW

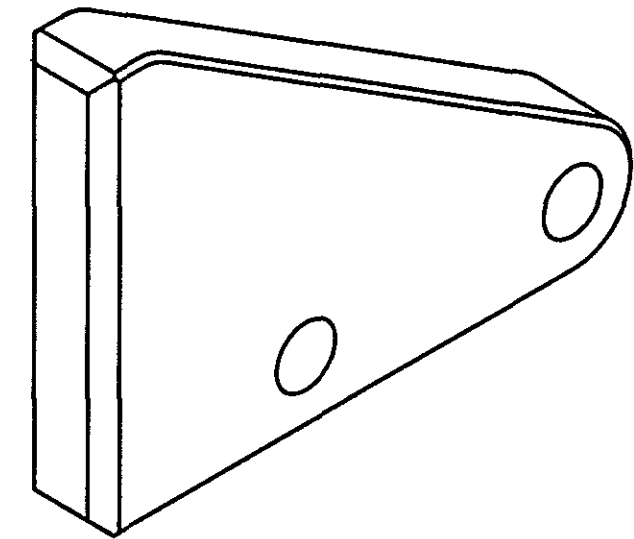
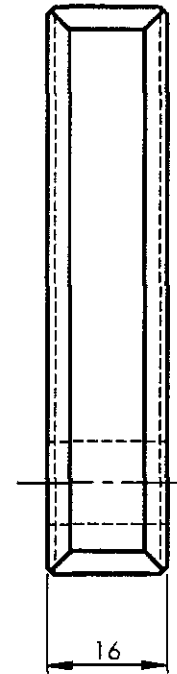
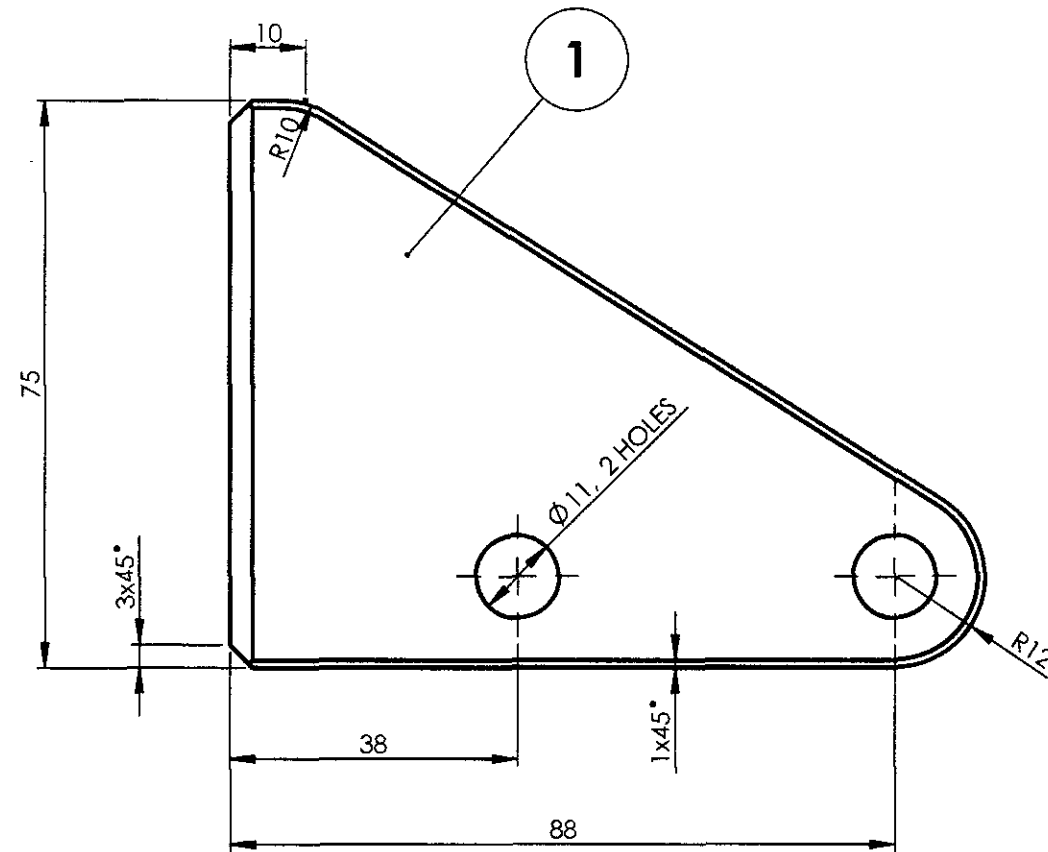
1	RAM PILLAR	3x302x2016	1		RHS/SPEC C-K20 X2CrNi12	10.668	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MTL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:0.919		WT/ASSY IN Kgs:	
RAM PILLAR					SCALE	SSE/D	
					1:10	CHD	B SURESH
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600036					DRN	MAHESH	
				SHEET 1 OF 1	AAD15904		
					A3		

30-07-24		
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAD15960

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

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REF.DRG.NO.-

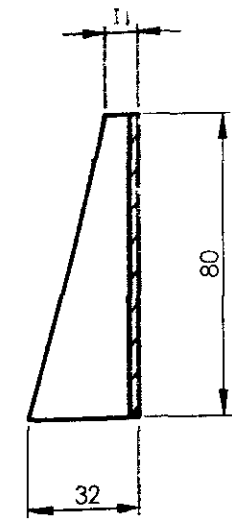
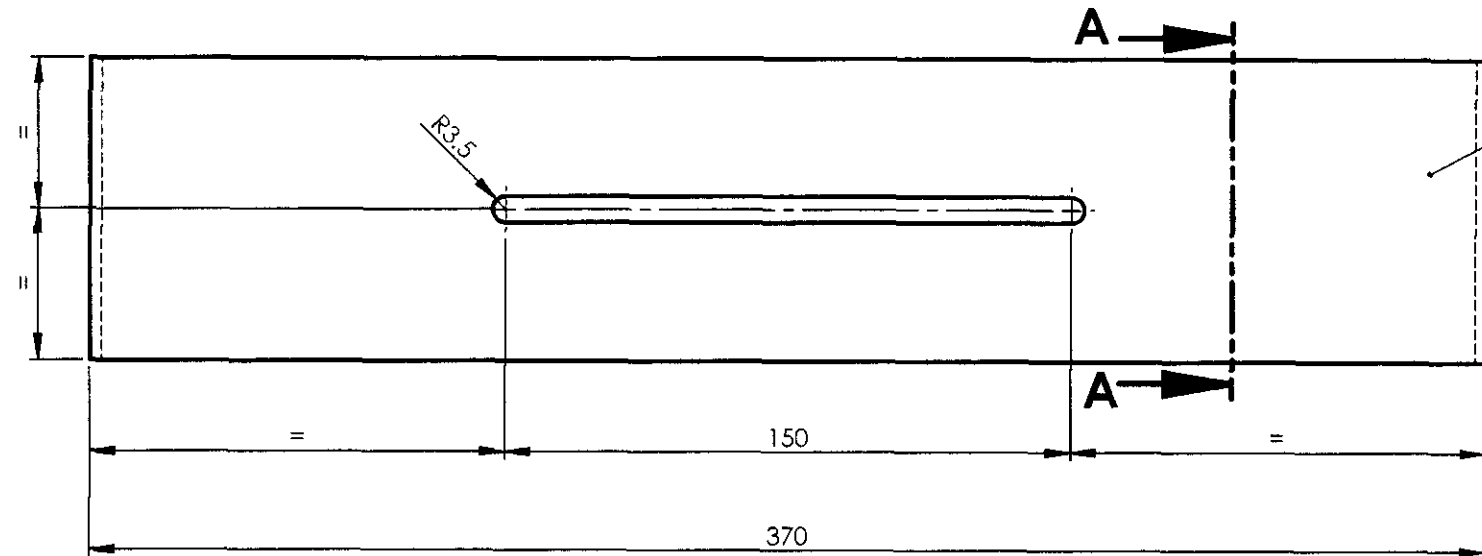
-	04.-02-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	BRACKET	16x75x100	1		IS:6911-'92; X04Cr19Ni9	0.60	EQUIV. TO AISI-304	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: -			SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
BRACKET						SCALE	SSE/D	
						1:1	CHD	
						ALT.	ALTD	
							DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1				
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAD15960		A3	

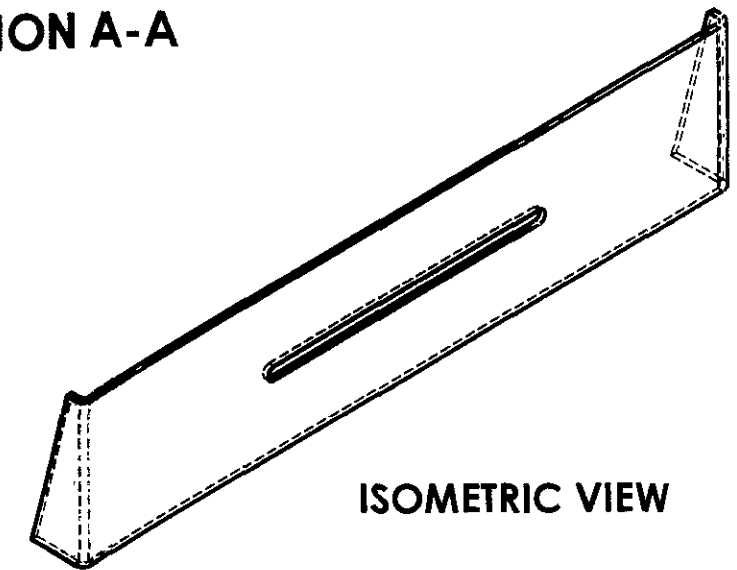
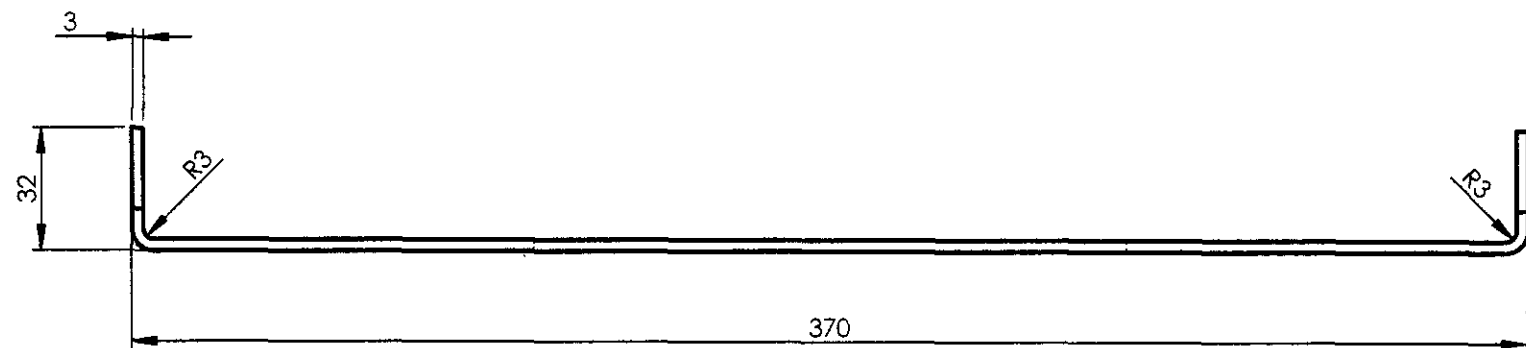
AAD15978

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①s CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

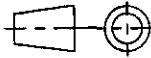


SECTION A-A



ISOMETRIC VIEW

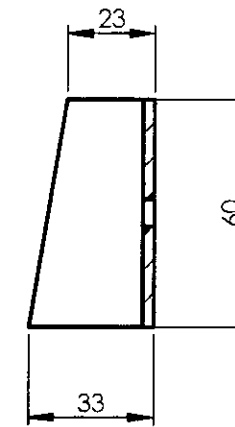
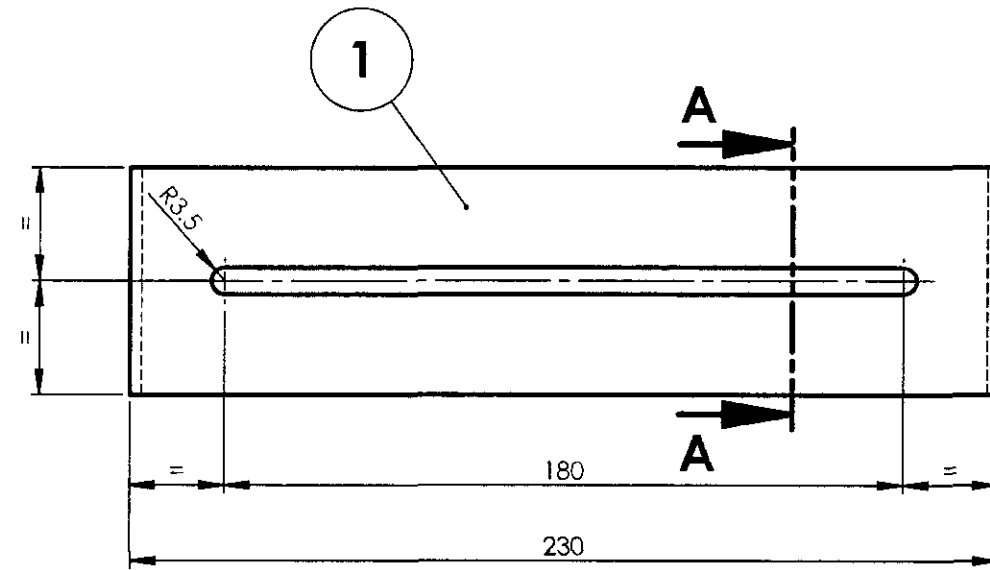
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
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1	SUPPORTING BRACKET	3x80x423	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.75	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
SUPPORTING BRACKET					SCALE	SSE/D	B. Suresh
					1:2	CHD	
					ALT.	ALTD	
						DRN	B Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		AAD15978	A3

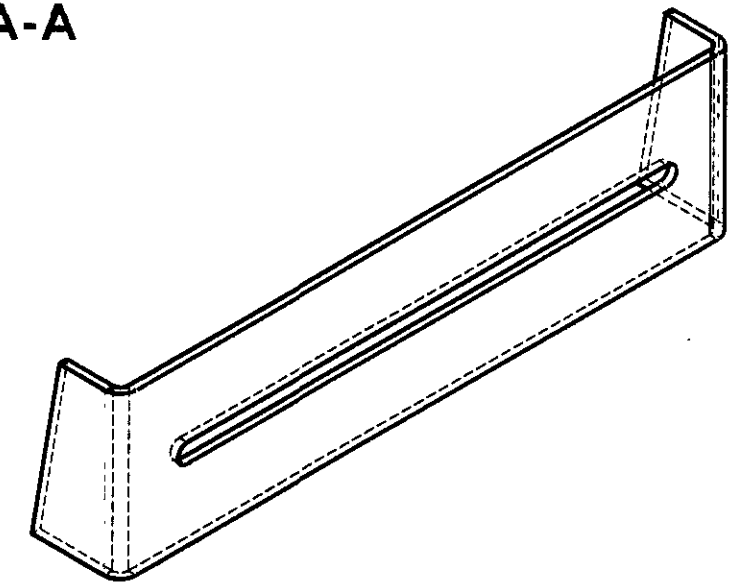
AAD15985

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



SECTION A-A

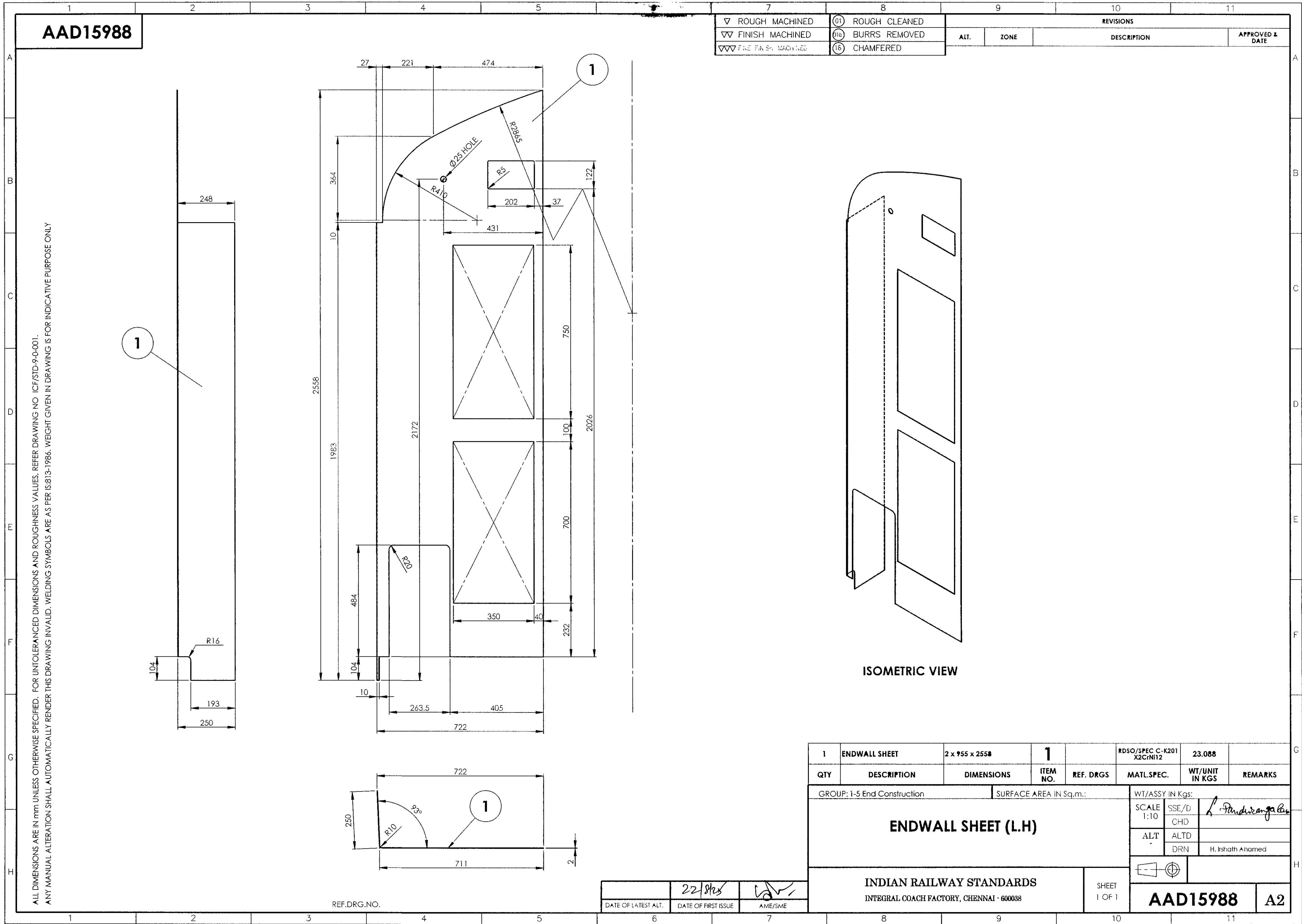


ISOMETRIC VIEW

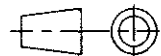
1	SUPPORTING BRACKET	3x60x287	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.37	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
SUPPORTING BRACKET					SCALE 1:2	SSE/D	B. Suresh
						CHD	
					ALT.	ALTD	
						DRN	Mahesh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		A3	
INTEGRAL COACH FACTORY, CHENNAI - 600038				AAD15985			
DATE OF LATEST ALT		DATE OF FIRST ISSUE		AME/SME			
		09-04-25					

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REF.DRG.NO.-



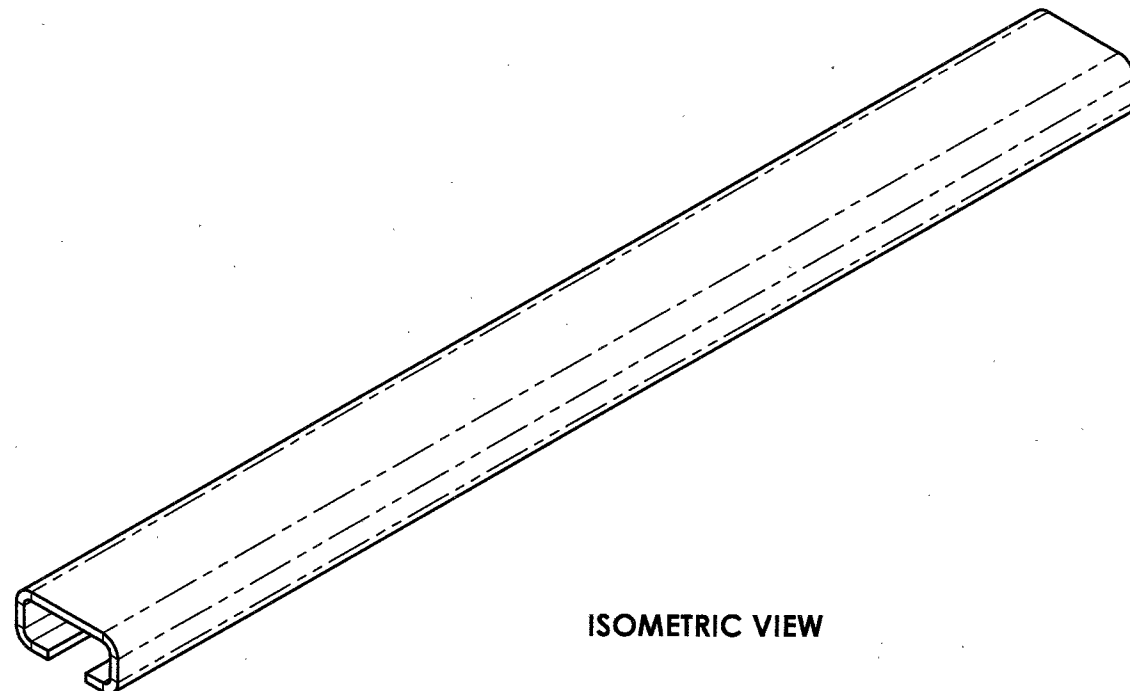
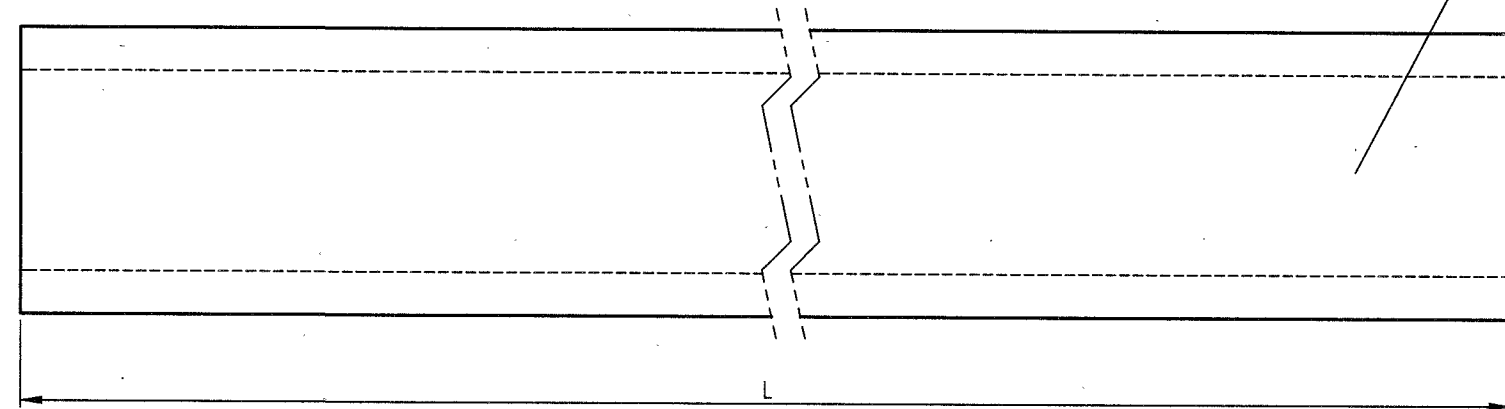
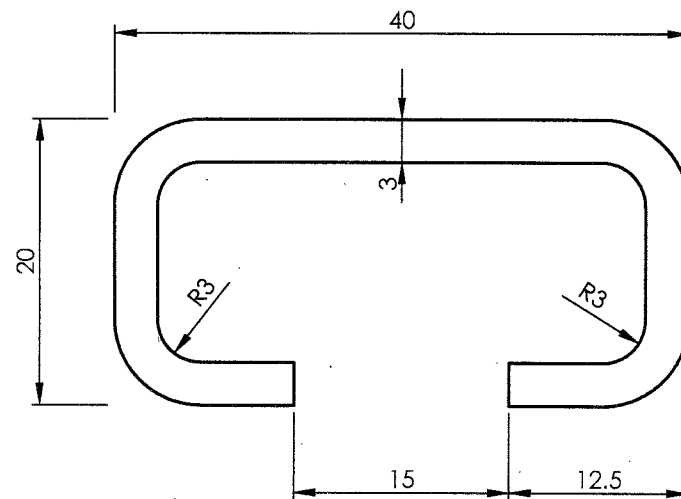
[illegible]

1	ENDWALL SHEET	2 x 955 x 2558	1		RDSO/SPEC C-K201 X2CrNi12	25.134	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ENDWALL SHEET (R.H)					SCALE 1:10	SSE/D	L. Panduranga Rao
						CHD	
					ALT	ALTD	H. Ishath Ahamed
						DRN	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAD15989		A2

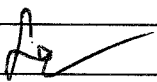
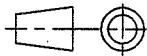
AAE11737

▽ ROUGH MACHINED	① ROUGH CLEANED
▽ FINISH MACHINED	①⑤ BURRS REMOVED
▽ FINE FINISH MACHINED	①⑧ CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a	-	R.M. SIZE AND MATERIAL SPEC. REVISED.		



ISOMETRIC VIEW

1	MOUNTING RAIL	3x81xL	1		AISI-304	0.31	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-1		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
MOUNTING RAIL					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	SURESH KUMAR.S
					a	DRN	B.Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		AAE11737
							A3

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REF.DRG.NO.

-05-2018

16-03-2018

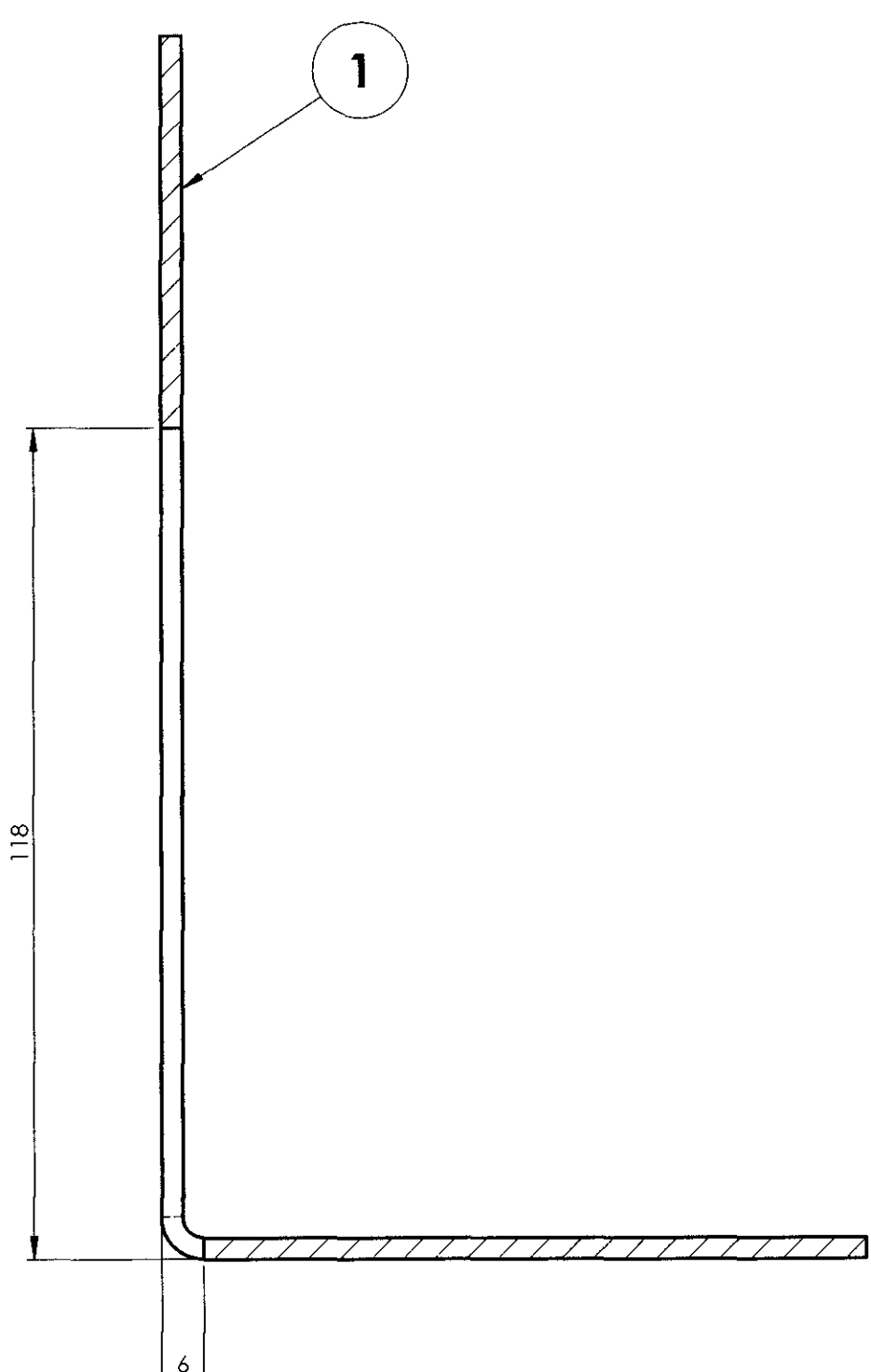
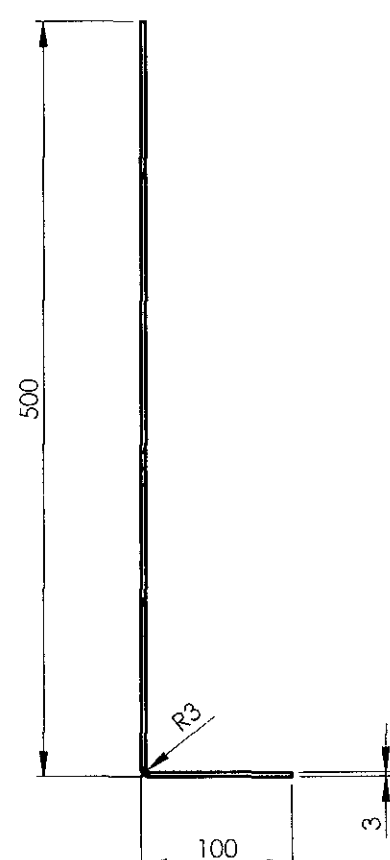
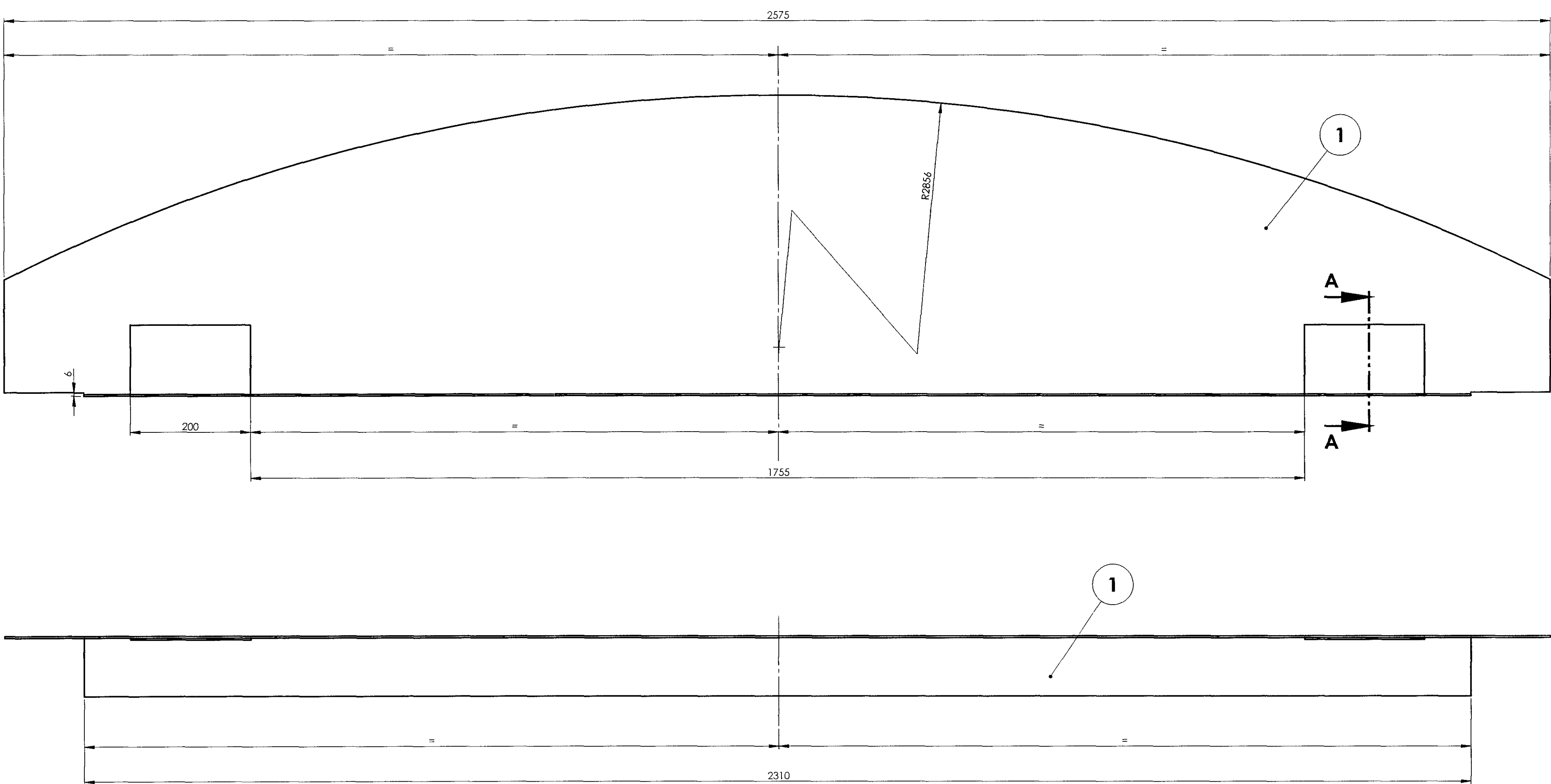
DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

1
AAE15007


12	13	14	15	16
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▽▽ FINISH MACHINED	⑫ BURRS REMOVED	ALT.	ZONE	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED	⑬ CHAMFERED			




SECTION A-A
SCALE 1 : 1

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO CF/STD-9-0001.

REF.DRG.NO.

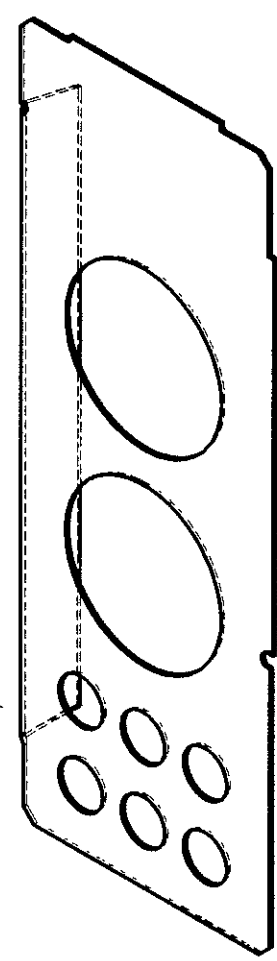
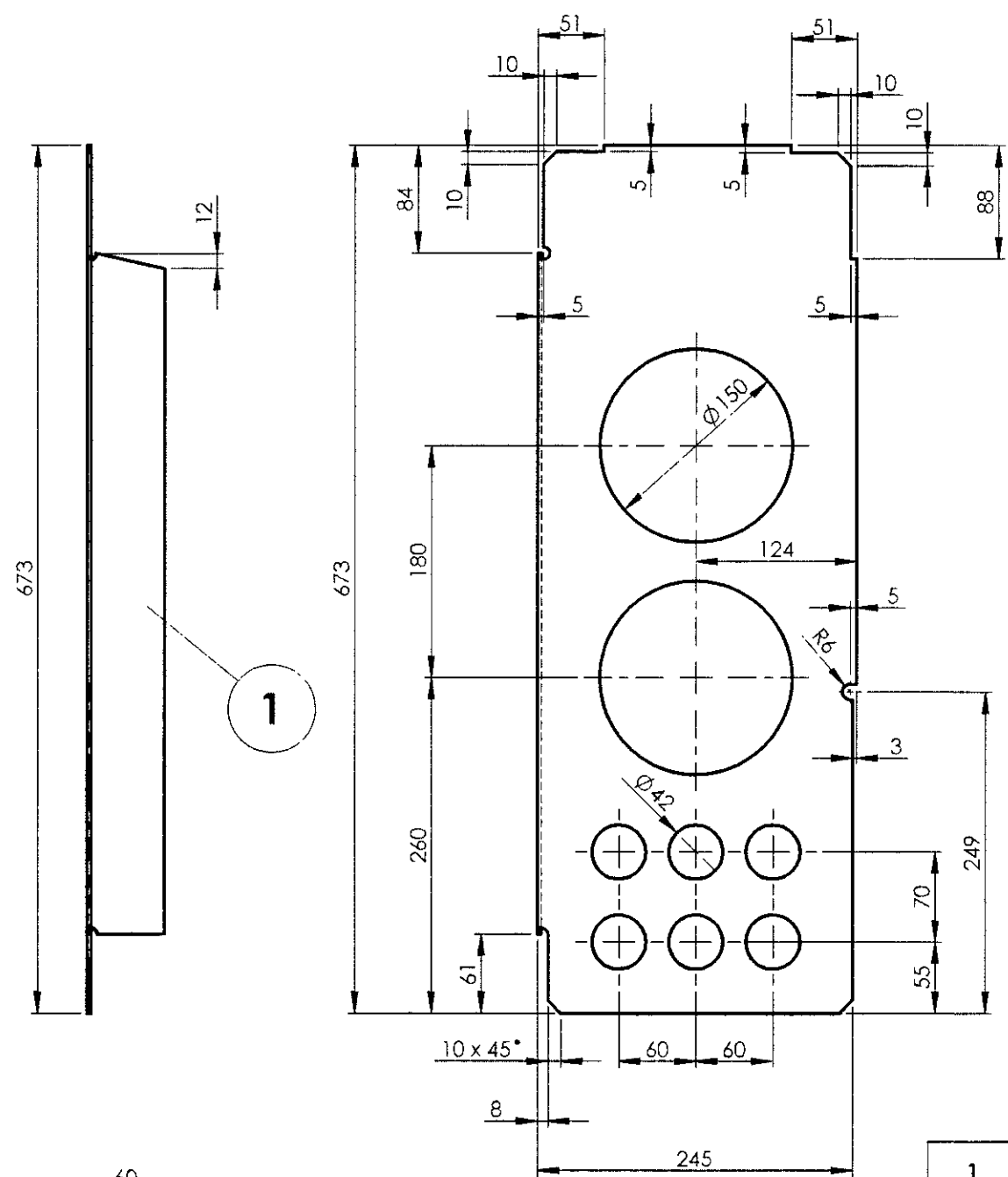
	22/8/25	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	A/E/SME

1	FLANGE	3 x 594 x 2575	1		RDSO/SPEC C-K201 XZGNI12	28.814		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:		
FLANGE				SCALE		1:5	SSE/D	L. Pandurangiah
							CHD	
						ALT	ALTD	
						-	DRN	H. Irishath Ahamed
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
						AAE15007		
						A1		

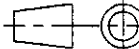
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AAE15016				▽ ROUGH MACHINED		⊖1 ROUGH CLEANED		REVISIONS								
				▽▽ FINISH MACHINED		⊖1b BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		⊖18 CHAMFERED										
<div><div>1</div><div><div>120</div><div>200</div><div>R3</div><div>R3</div><div>3</div></div><div><div>50</div><div>3</div><div>320</div></div></div>																
<div><div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div><div>REF.DRG.NO.</div><div><div>22/8/25</div><div>AME/SME</div></div><div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div></div><div><div>GROUP: 1-5 End Construction</div><div>SURFACE AREA IN Sq.m.:</div><div>WT/ASSY IN Kgs:</div></div><div><div>RECTANGULAR TUBE</div><div>SCALE 1:5</div><div>ALT.</div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div><div>SHEET 1 OF 1</div><div>AAE15016</div><div>A3</div></div></div>																
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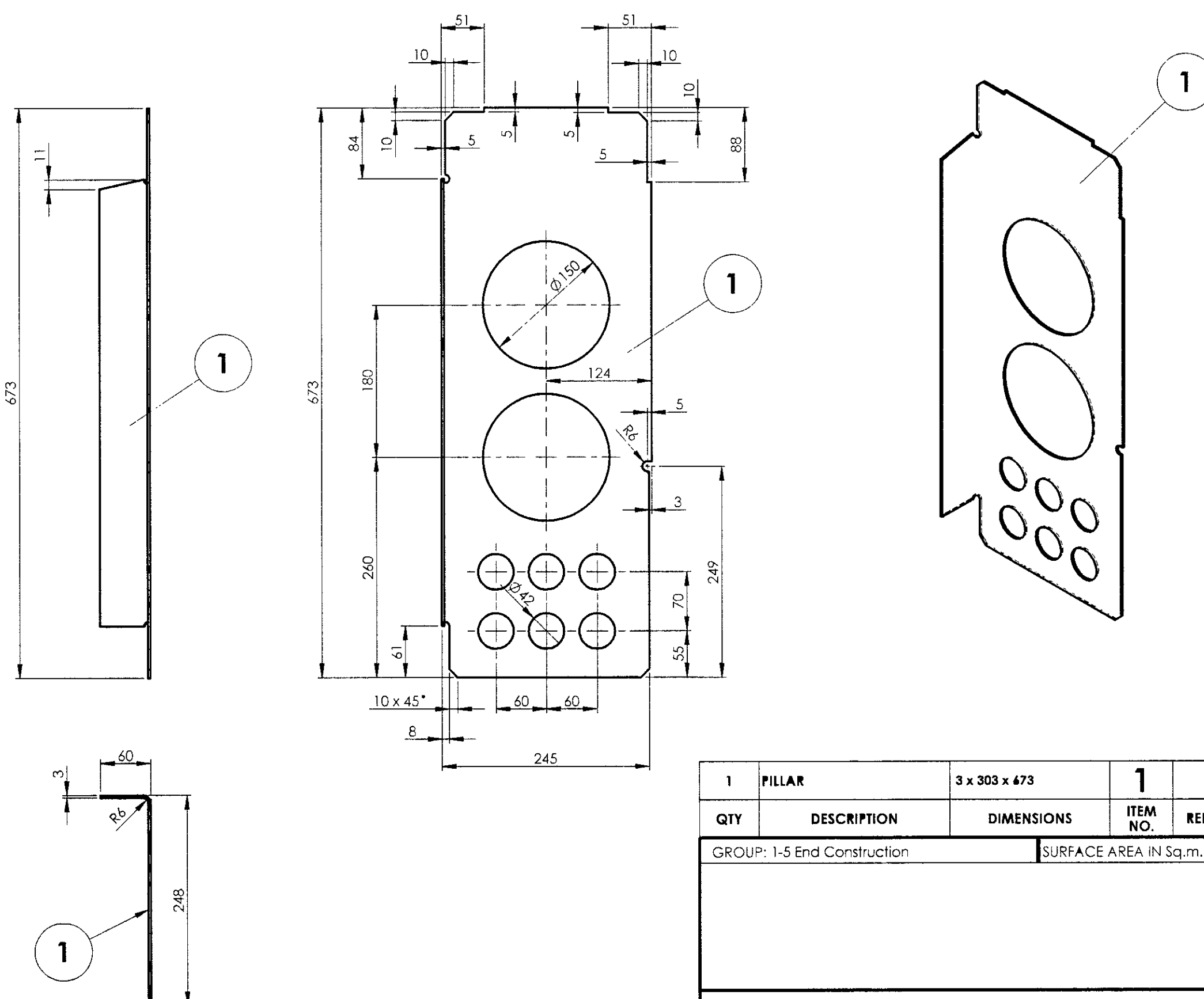
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▽▽ FINISH MACHINED	(0°-2°) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(8°) CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



REF.DRG.NO.

1	PILLAR	3 x 303 x 673	1		RDSO/SPEC C- K201 X2CrNi12	3.565	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:0.308			WT/ASSY IN Kgs:		
PILLAR					SCALE	SSE/D	<i>L. Poudhanga Lau</i>
					1:5	CHD	
					ALT.	ALTD	
						DRN	H. Irshath Ahamed
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15017		A3

1		2		3		4		5		6		7		8	
AAE15018				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		② BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		③ CHAMFERED									
A															
B															
C															
D															
E															
F															
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY															
															
REF.DRG.NO.															
22/8/25															
AME/SME															
INDIAN RAILWAY STANDARDS															
INTEGRAL COACH FACTORY, CHENNAI - 600035															
SHEET 1 OF 1															
AAE15018															
A3															
1		2		3		4		5		6		7		8	

AAE15019

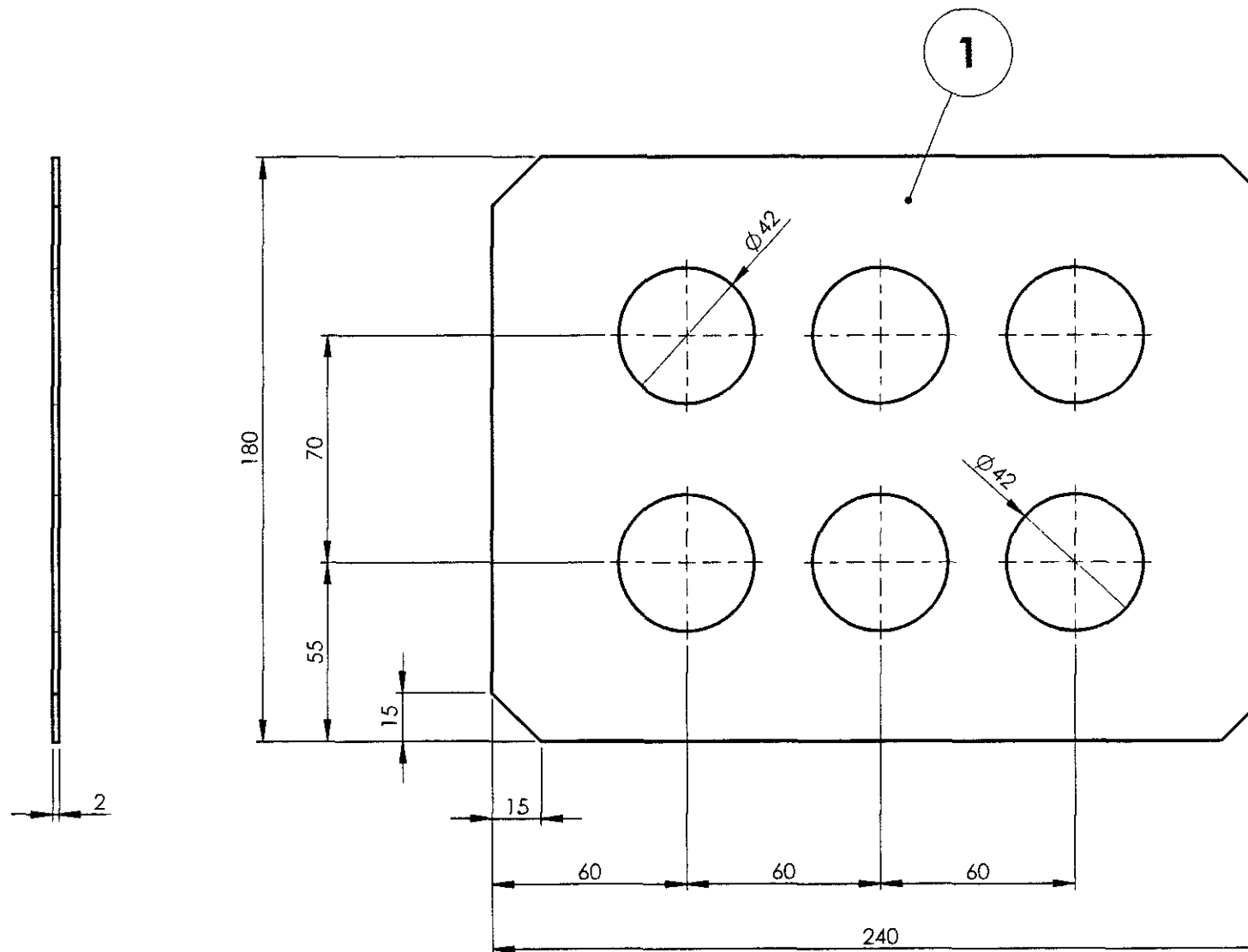
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▽▽ FINISH MACHINED	(r1b) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(r1c) CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1	SUPPORT FOR CONDUITS	2 x 180 x 240	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.55	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
SUPPORT FOR CONDUITS					SCALE	SSE/D	L. Pandey
					1:5	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS						DRN	H. Irshath Ahamed
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					AAE15019		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.-

-	28/8/25	H. Irshath Ahamed
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1		2		3		4		5		6		7		8																																																																		
AAE15021				▽ ROUGH MACHINED		①① ROUGH CLEANED		REVISIONS																																																																								
				▽▽ FINISH MACHINED		①①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																																		
				▽▽▽ FINE FINISH MACHINED		①①c CHAMFERED																																																																										
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/F/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div></div>																																																																																
<table><tr><td>1</td><td>CABLE SUPPORTING ROD</td><td>Ø8 x 425</td><td>1</td><td></td><td>IS 4403-2001 X04Cr19Ni9</td><td>0.17</td><td></td></tr><tr><td>QTY</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="5">GROUP: 1-5 End Construction</td><td colspan="2">SURFACE AREA IN Sq.m.:</td><td>WT/ASSY IN Kgs:</td></tr><tr><td colspan="5" rowspan="3">CABLE SUPPORTING ROD</td><td>SCALE</td><td>SSE/D</td><td rowspan="2">L. Panduranga Rao</td></tr><tr><td>1:5</td><td>CHD</td></tr><tr><td>ALT.</td><td>ALTD</td><td></td></tr><tr><td colspan="5" rowspan="2">INDIAN RAILWAY STANDARDS</td><td>DRN</td><td colspan="2">H. Irshath Ahamed</td></tr><tr><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5"></td><td colspan="2">AAE15021</td><td>A3</td></tr></table>																1	CABLE SUPPORTING ROD	Ø8 x 425	1		IS 4403-2001 X04Cr19Ni9	0.17		QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-5 End Construction					SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	CABLE SUPPORTING ROD					SCALE	SSE/D	L. Panduranga Rao	1:5	CHD	ALT.	ALTD		INDIAN RAILWAY STANDARDS					DRN	H. Irshath Ahamed						INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1								AAE15021		A3
1	CABLE SUPPORTING ROD	Ø8 x 425	1		IS 4403-2001 X04Cr19Ni9	0.17																																																																										
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																									
GROUP: 1-5 End Construction					SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:																																																																									
CABLE SUPPORTING ROD					SCALE	SSE/D	L. Panduranga Rao																																																																									
					1:5	CHD																																																																										
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INDIAN RAILWAY STANDARDS					DRN	H. Irshath Ahamed																																																																										
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1																																																																											
					AAE15021		A3																																																																									
REF.DRG.NO.		DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																																																																										
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AAE15022

▽ ROUGH MACHINED

▽ FINISH MACHINED

▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED & DATE

1

217

1

80

R8

REF.DRG.NO.

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

1

CABLE SUPPORTING ROD

Ø8 x 367

1

IS 4603-2001
X04Cr19Ni9

0.15

QTY

DESCRIPTION

DIMENSIONS

ITEM NO.

REF. DRGS

MATL.SPEC.

WT/UNIT IN KGS

REMARKS

GROUP: 1-5

SURFACE AREA IN Sq.m.:

WT/ASSY IN Kgs:

CABLE SUPPORTING ROD

SCALE 1:2

SSE/D CHD

ALT. ALTD

DRN T.UKKIRAPANDIAN

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

AAE15022

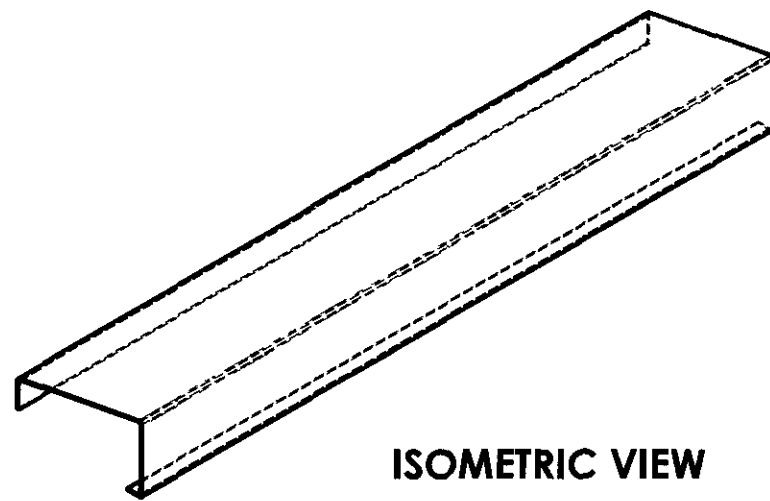
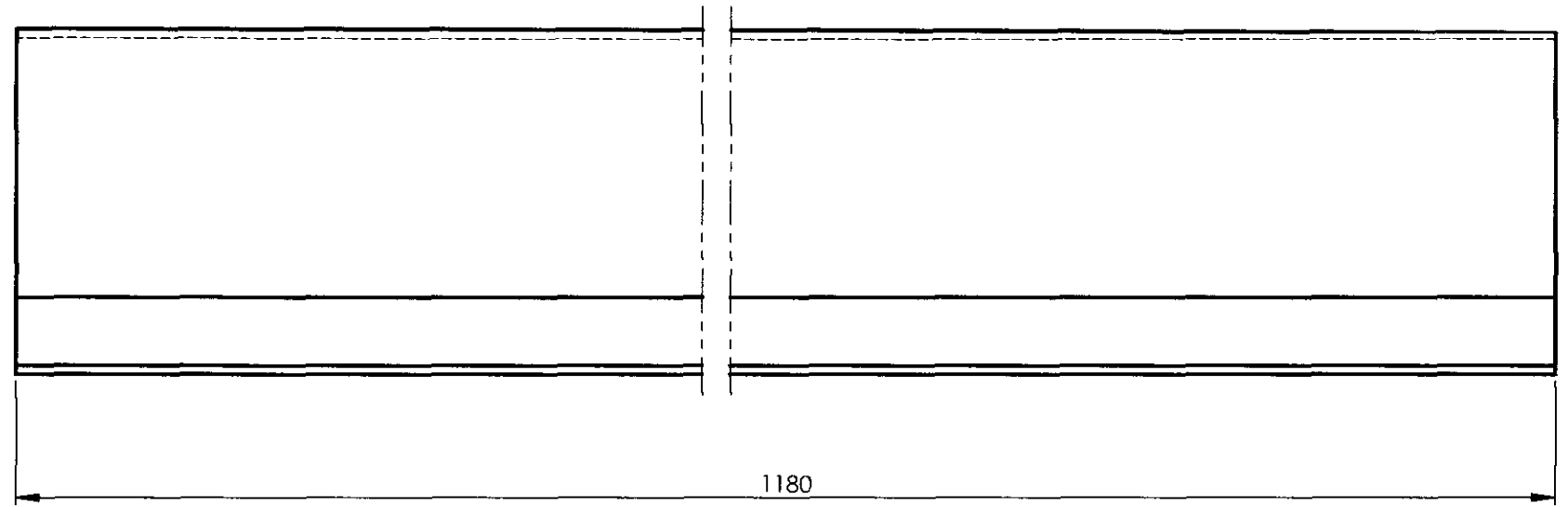
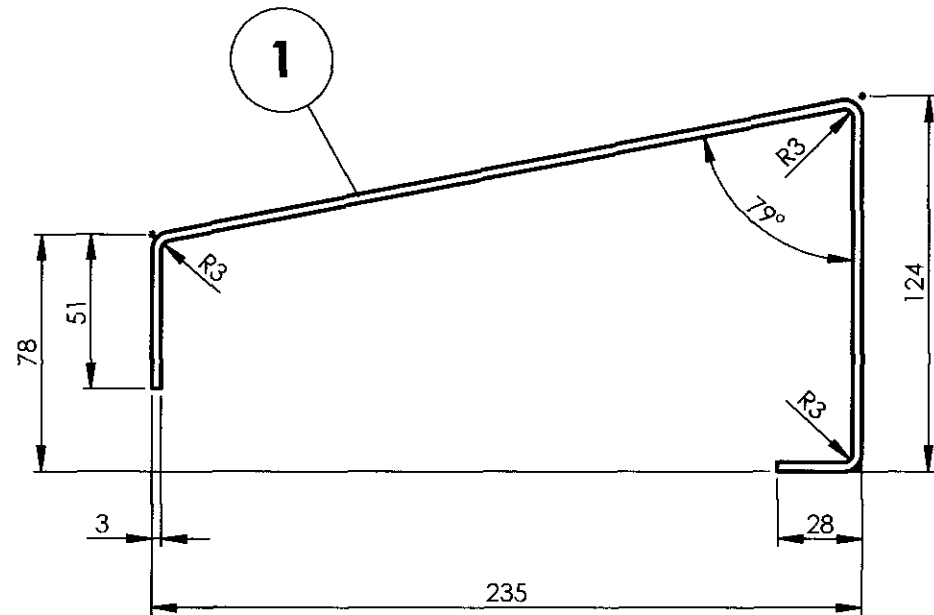
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ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

AAE15023

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①s CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

1	RAMP SHEET	3x426x1180	1		RDSO SPEC C-K201 X2 Cr Ni 12	12.10	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
RAMP SHEET					SCALE 1:10	SSE/D CHD	13 - 12
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15023		A3

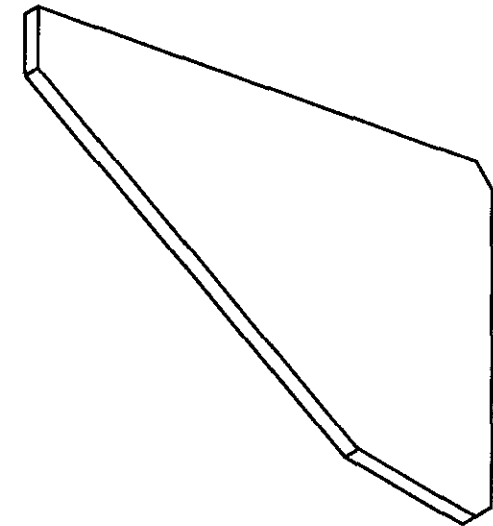
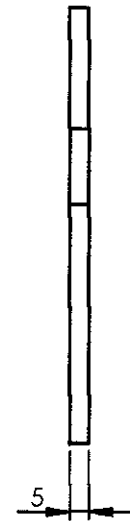
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
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REF.DRG.NO.-

-	30-07-2025	gjh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

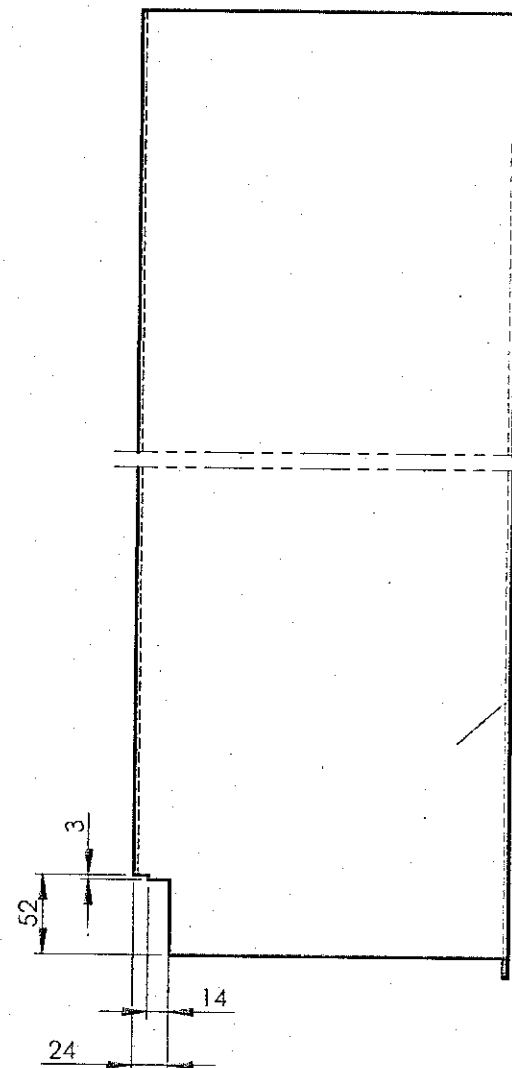
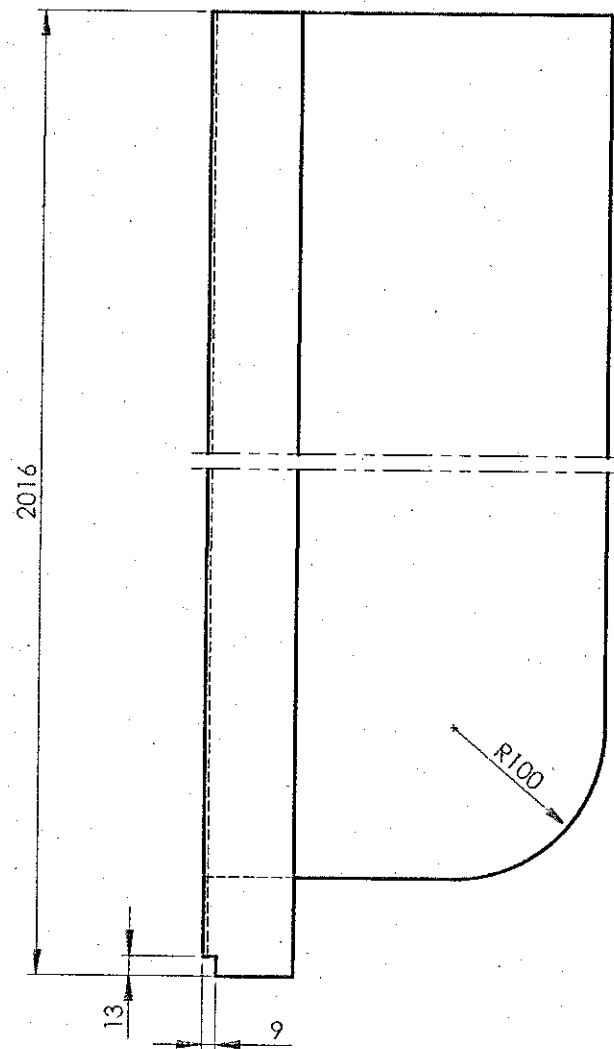


1	RIB	5x115x170	1		SS-409M	0.52	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
RIB					SCALE	SSE/D	B. Suresh
					1:1	CHD	
					ALT.	ALTD	
					DRN	B.Suresh	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15026		A3

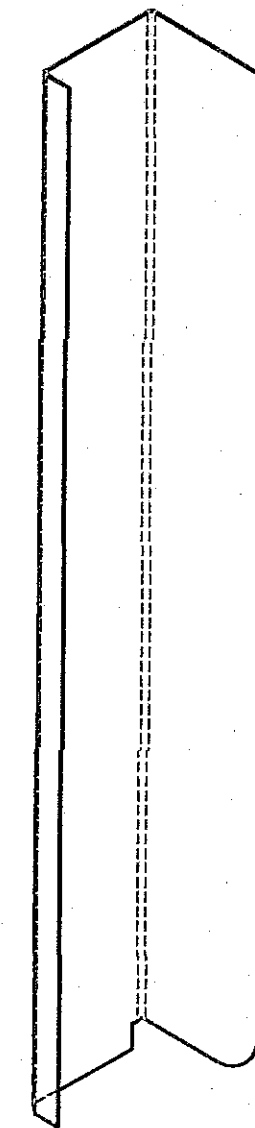
AAE15039

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

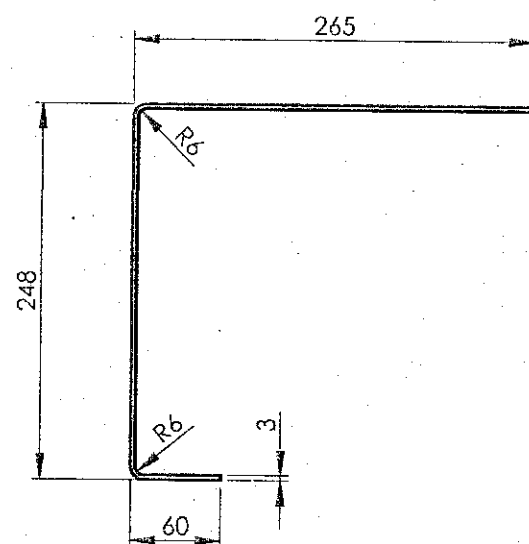
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		RADIUS DIMENSION R100 ADDED.	18/2



1



ISOMETRIC VIEW



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

23 -01-2026	30-07-2025	18/2
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

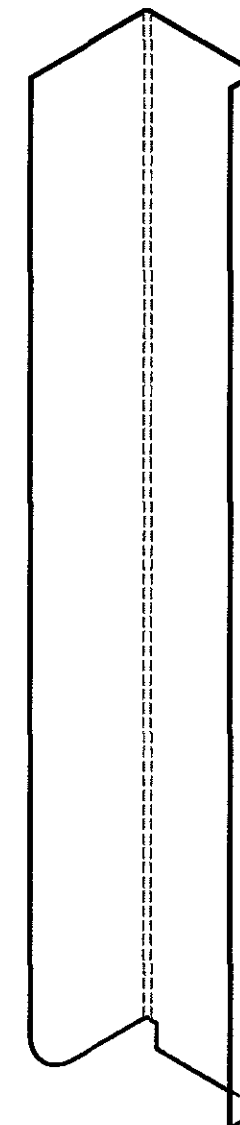
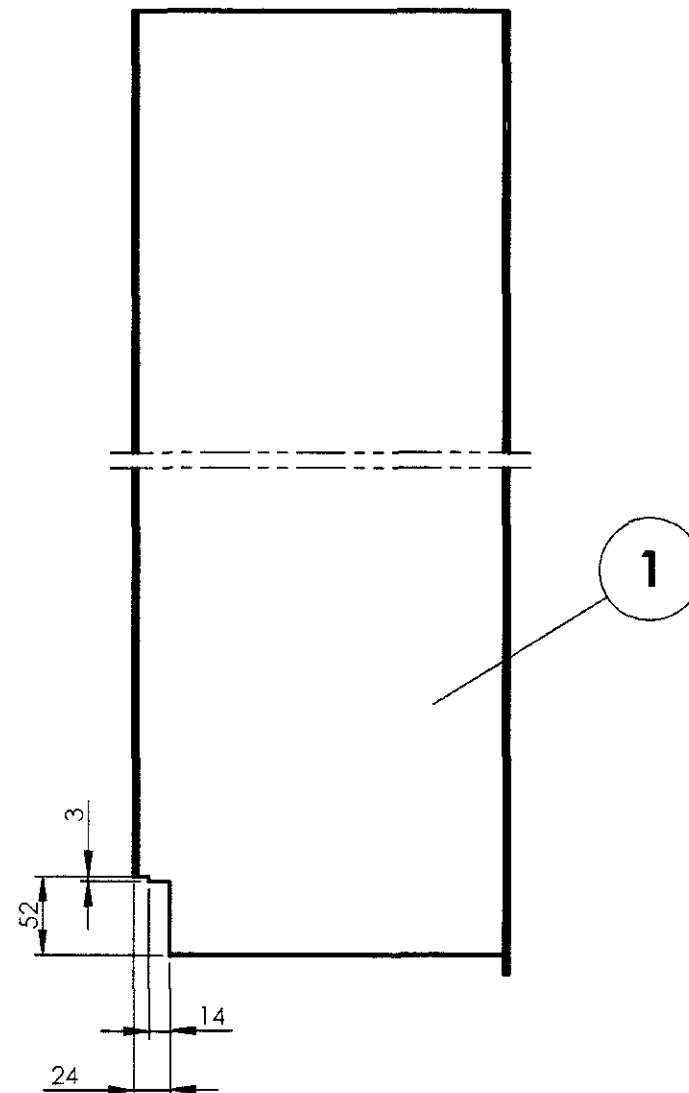
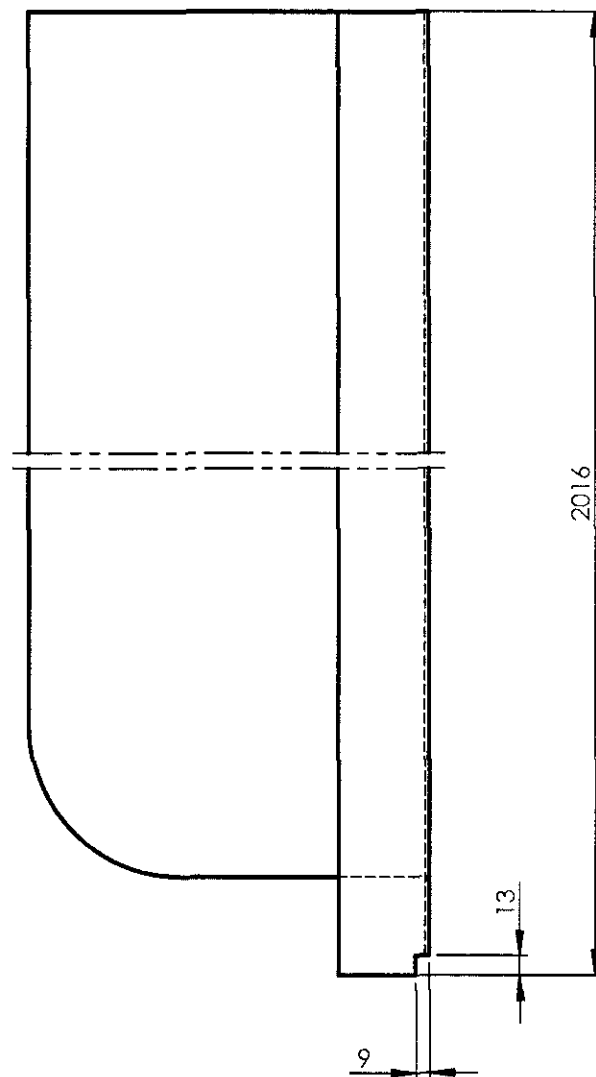
1	PILLAR RH	3 x 561 x 2016	1		RDSO SPEC C-K201 X2 Cr Ni 12	26.56	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
PILLAR RH					SCALE 1:5	SSE/D C-D	18/2
					ALT. a	ALTD D-RV	MAHESH B.Suresh
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15039		
					A3		

AAE15040

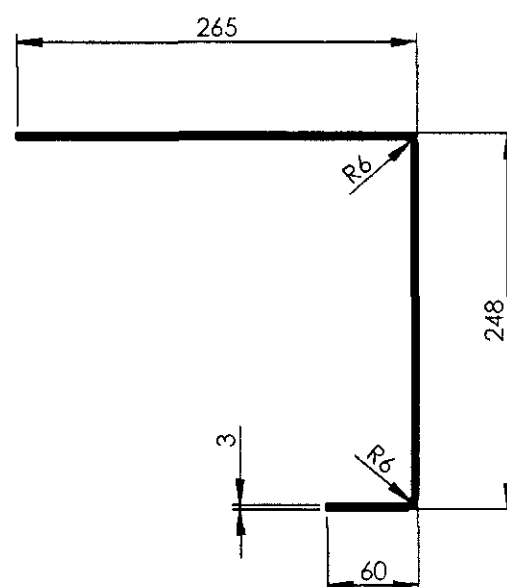
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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ISOMETRIC VIEW



1	PILLAR LH	3 x 561 x 2016	1		RDSO SPEC C-K201 X2 Cr Ni 12	26.56	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
PILLAR LH					SCALE	SSE/D	B. L.
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY CHENNAI - 600038					AAE15040		
					A3		

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ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

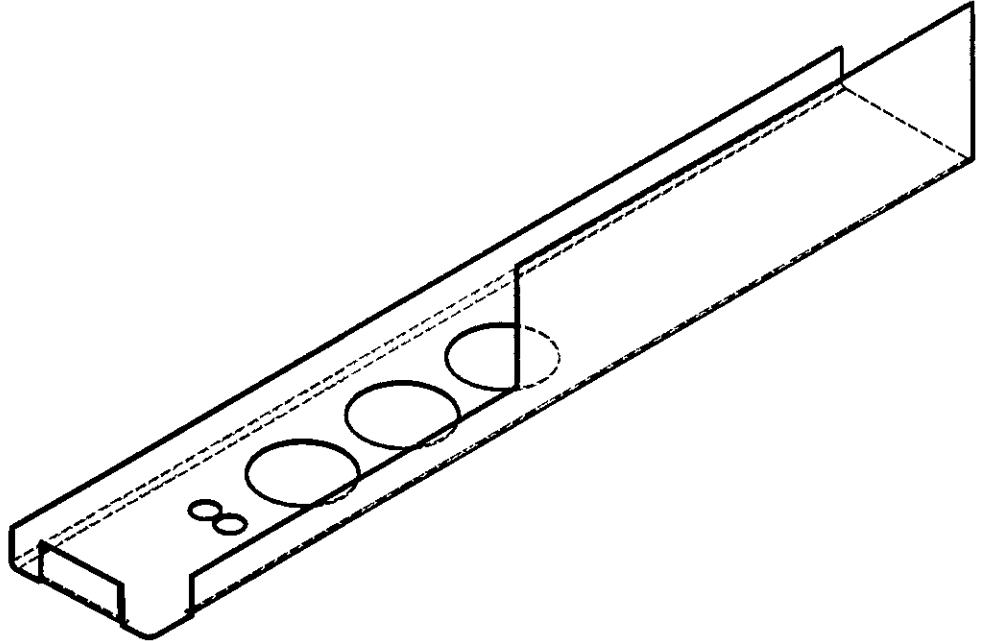
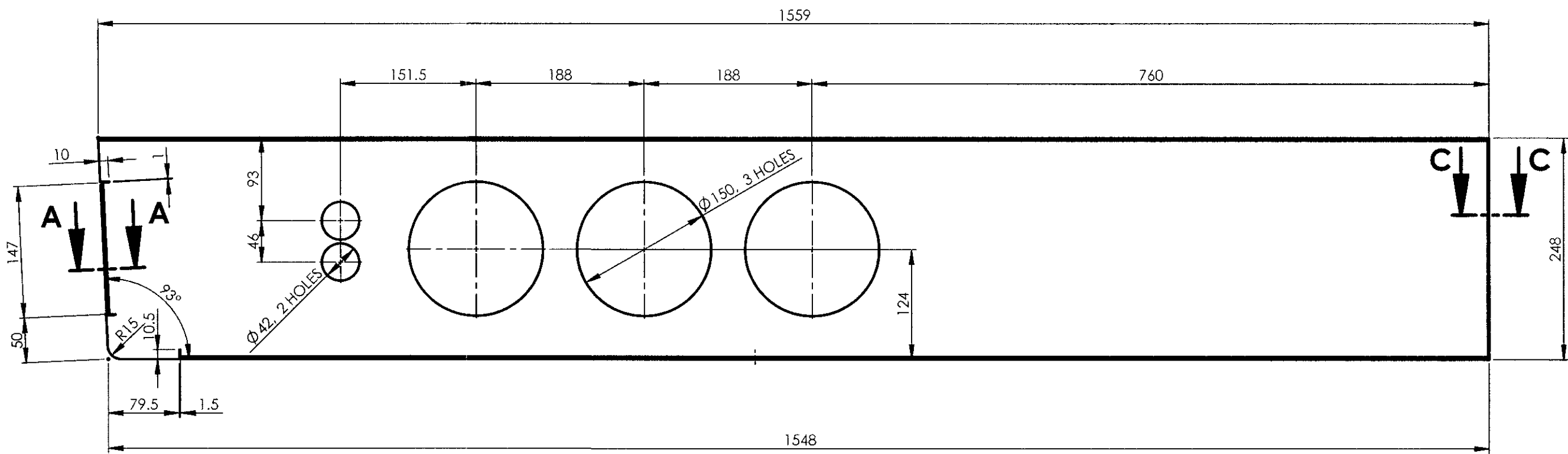
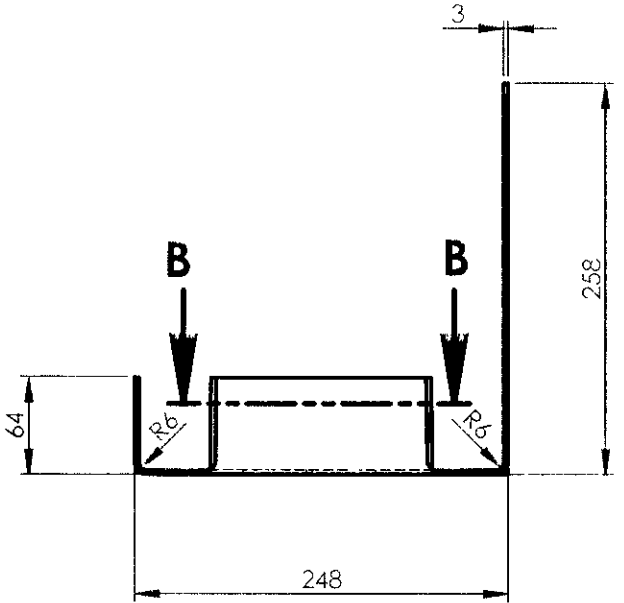
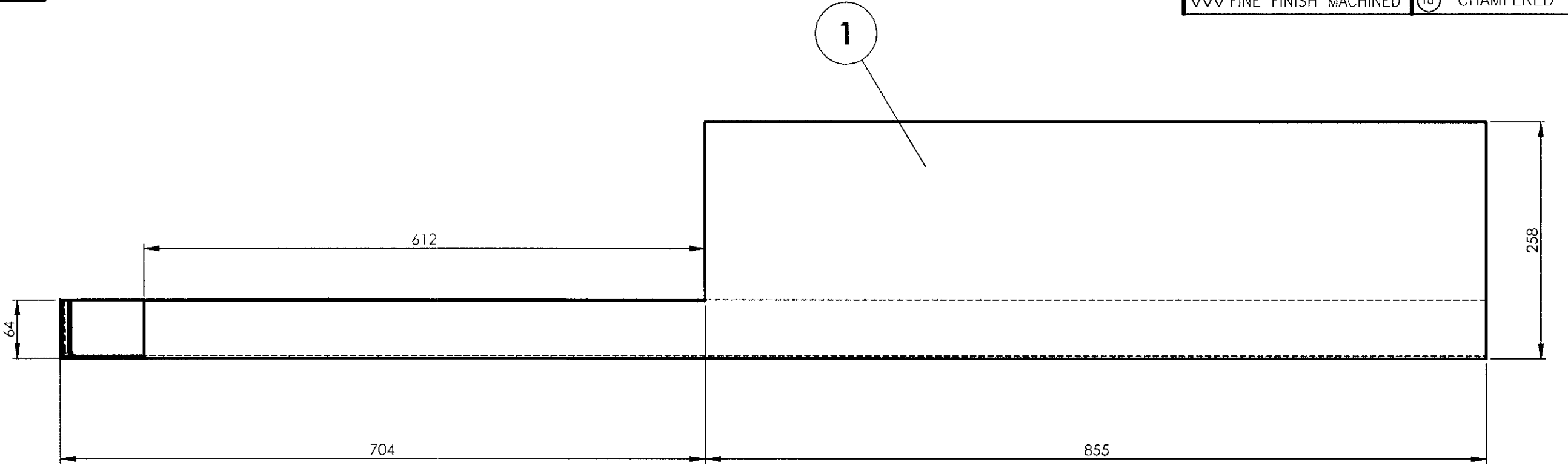
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30	07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

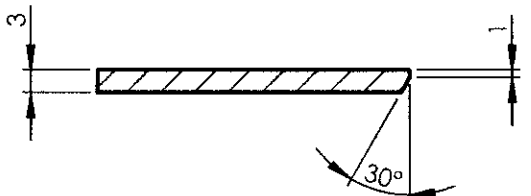
AAE15041

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①③ CHAMFERED

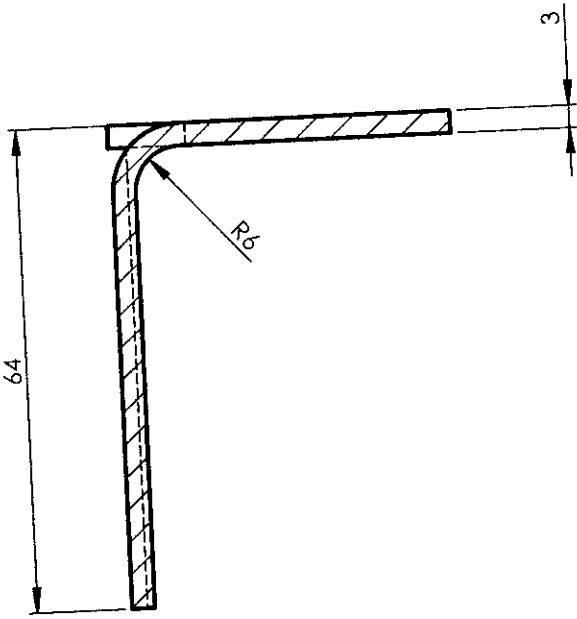
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



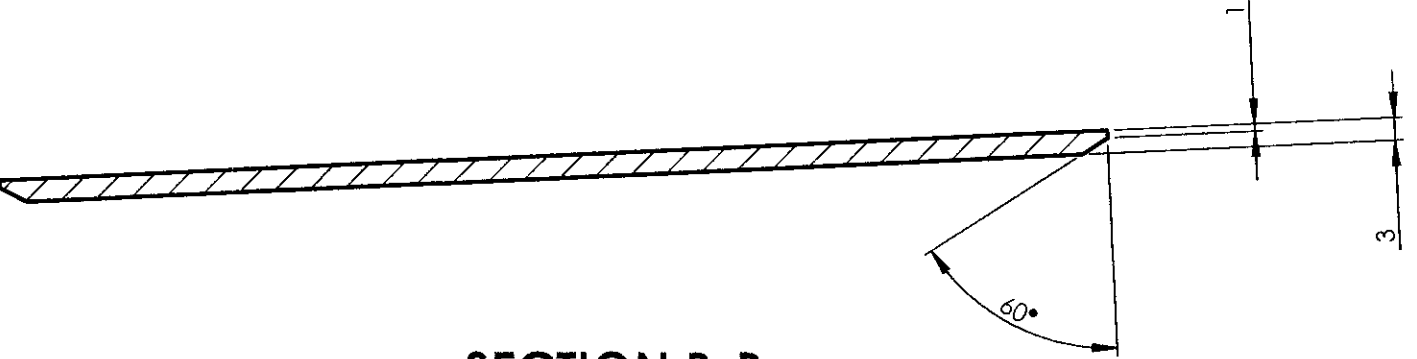
ISOMETRIC VIEW



SECTION C-C
SCALE 1 : 1



SECTION A-A
SCALE 1 : 1



SECTION B-B
SCALE 1 : 1

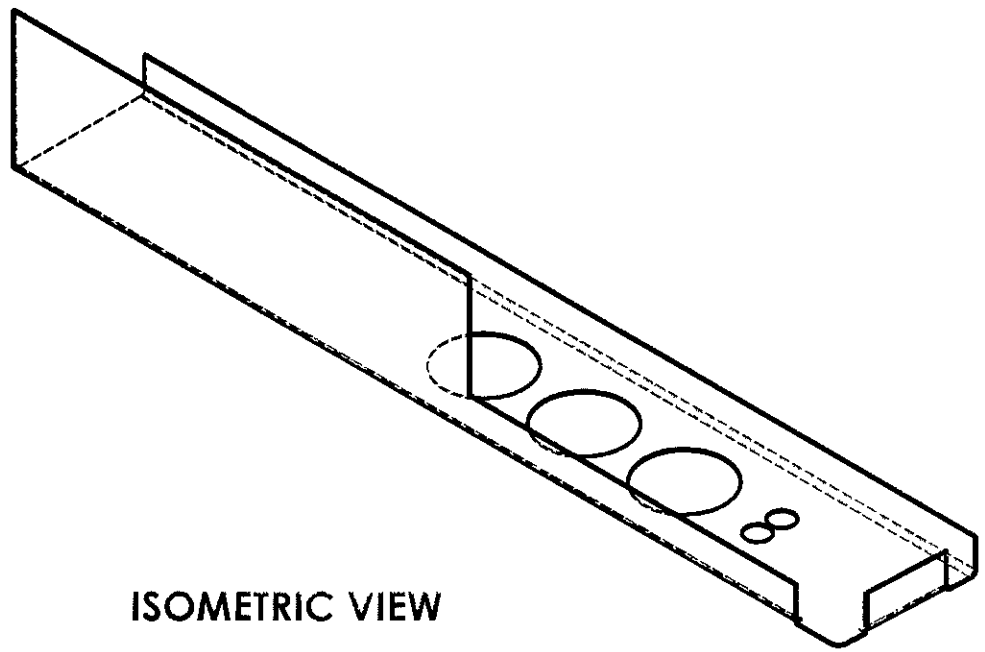
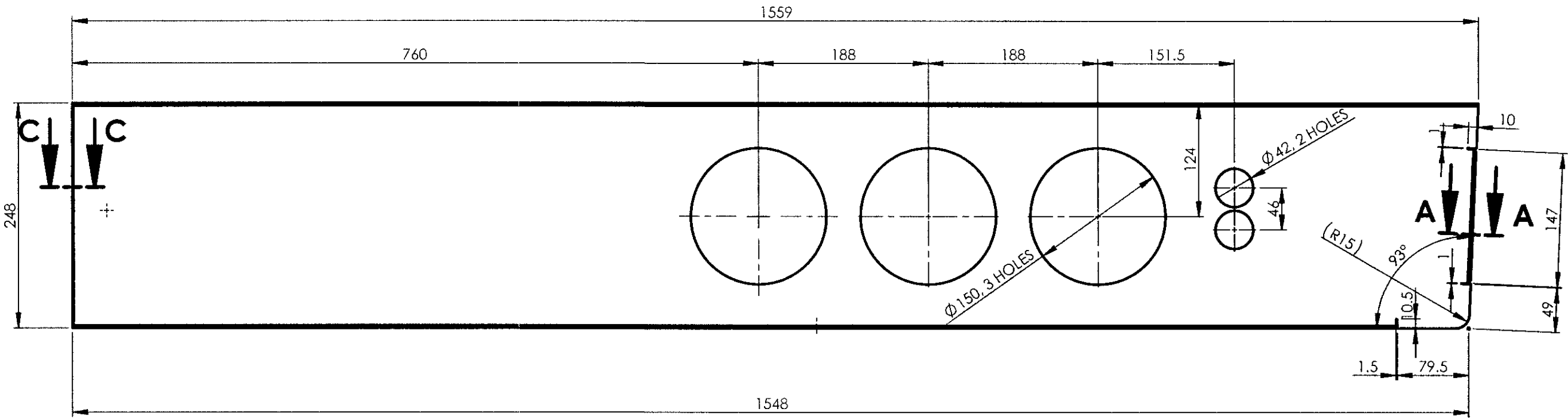
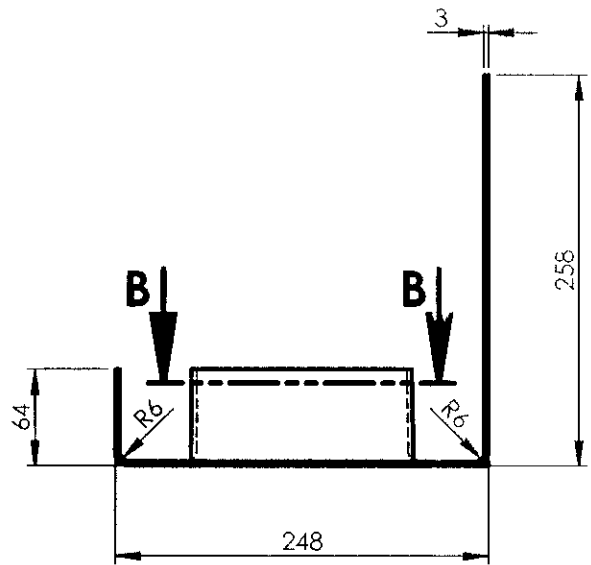
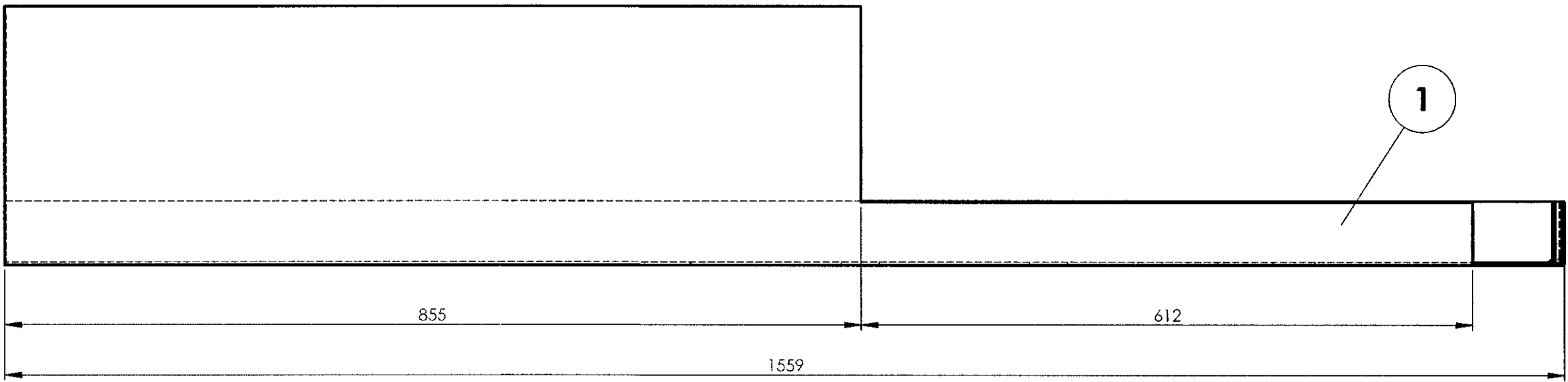
1	FLANGE	3 x 558 x 1614	1		RDSO/SPEC C-K201 X2CrNi12	16.262	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.: 1.373			WT/ASSY IN Kgs:		
FLANGE					SCALE 1:5	SSE/D	B. Senthil
						CHD	
					ALT	ALTD	
					DRN	MAHESH	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		AAE15041

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

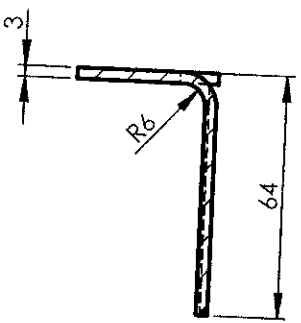
AAE15042

▽ ROUGH MACHINED	⊖1 ROUGH CLEANED
▽▽ FINISH MACHINED	⊖1a BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊖1b CHAMFERED

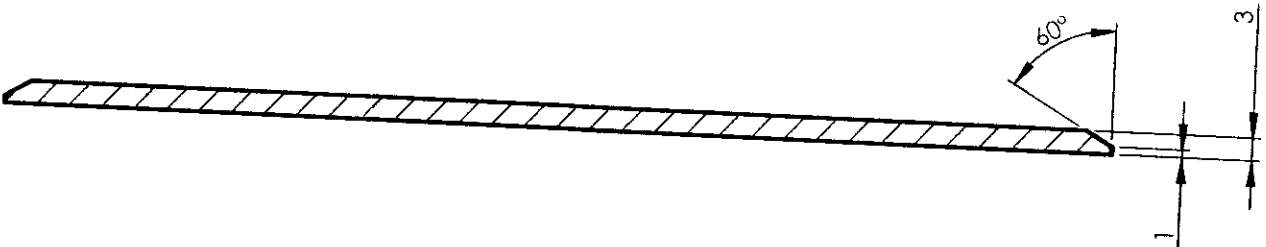
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



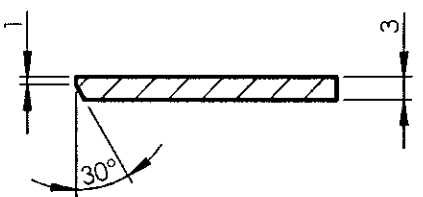
ISOMETRIC VIEW



SECTION A-A
SCALE 1 : 2



SECTION B-B
SCALE 1 : 1



SECTION C-C
SCALE 1 : 1

1	FLANGE	3 x 558 x 1414	1		RDSO/SPEC C-K201 X2CrNi12	16.262	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction			SURFACE AREA IN Sq.m.: 0.995		WT/ASSY IN Kgs:		
FLANGE					SCALE 1:5	SSE, D	R. [Signature]
						CHD	
					ALT	ALTD	
						DRN	MAHESH
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
AAE15042	A2						

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REF.DRG.NO.

DATE OF LATEST ALT.	30-07-2025	AME/SME
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AAE15043

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

①b BURRS REMOVED

⑱ CHAMFERED

REVISIONS

ALT.

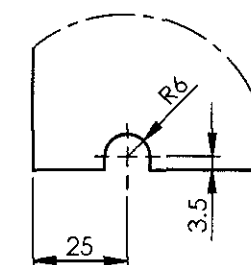
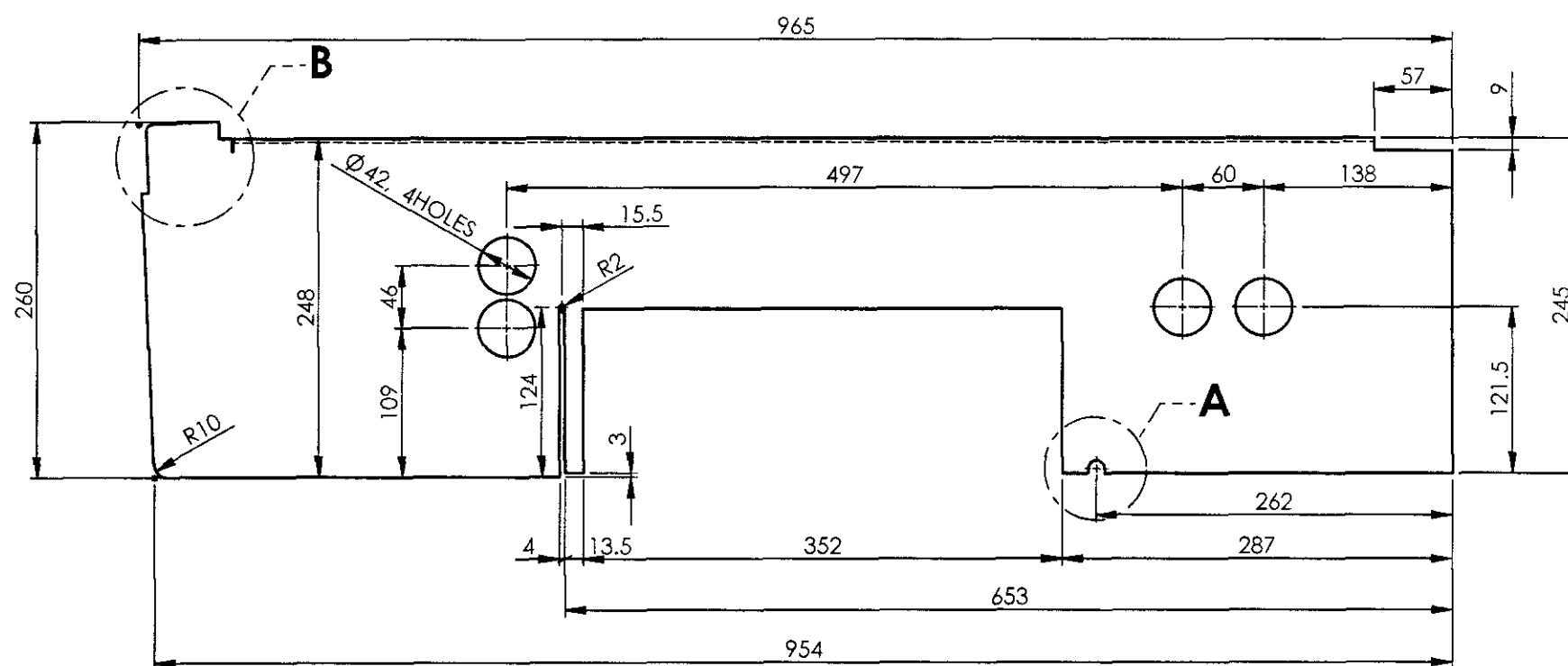
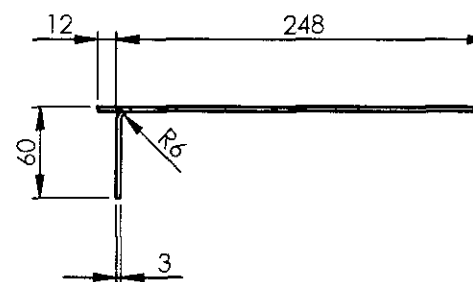
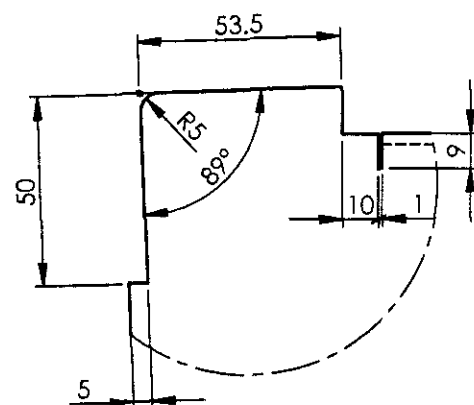
ZONE


DESCRIPTION

APPROVED &
DATE

1

839

DETAIL A
SCALE 1 : 2DETAIL B
SCALE 1 : 2

1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C-K201 X2CrNi12	5.586	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B Singh
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15043		A3

REF.DRG.NO.

DATE OF LATEST ALT.

30-07-2025

DATE OF FIRST ISSUE

AME/SME

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

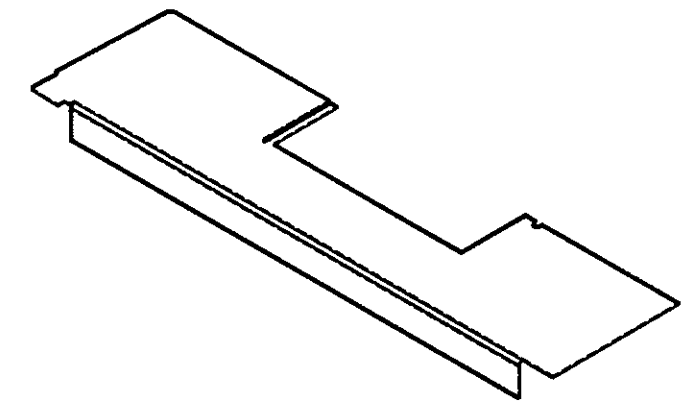
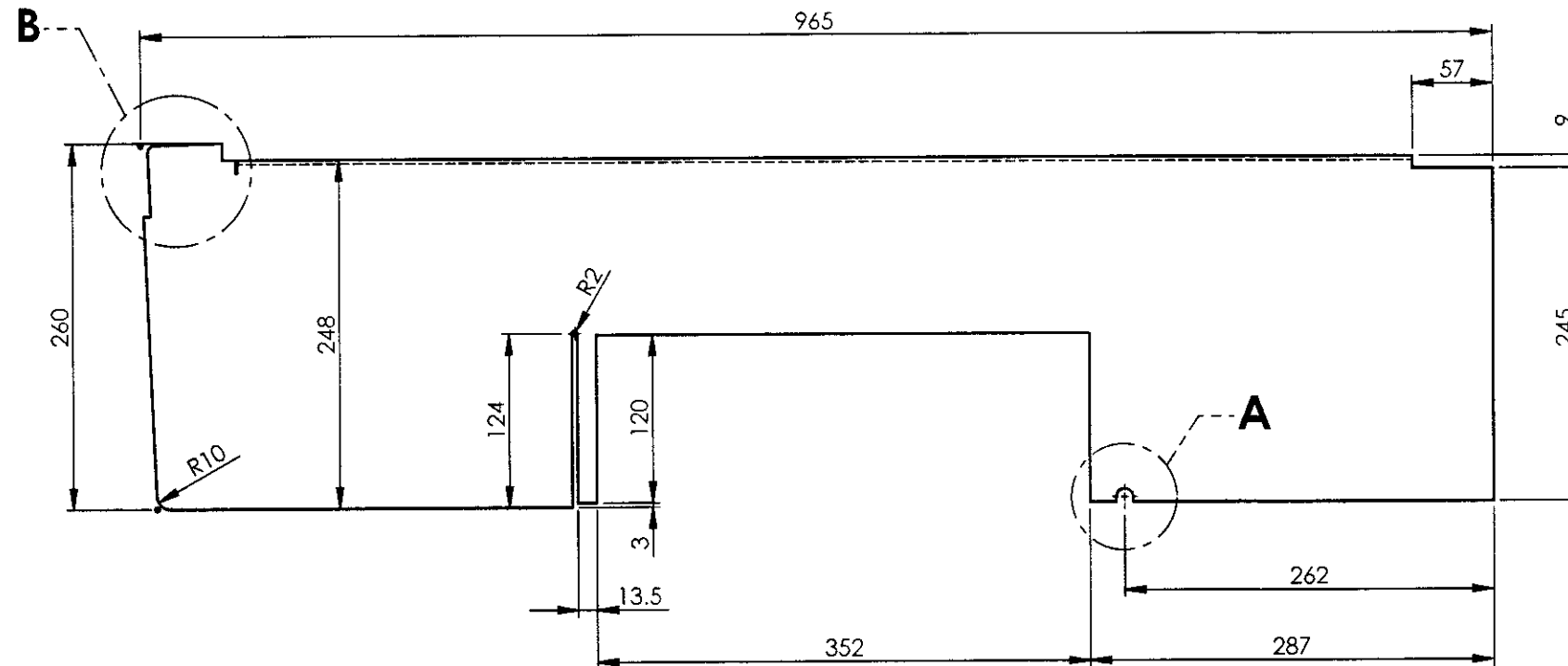
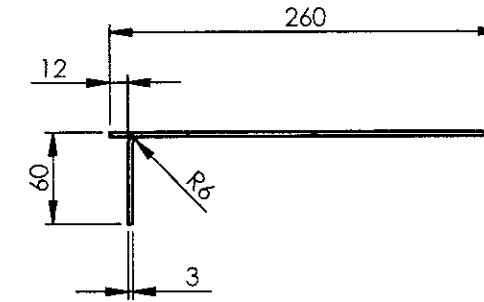
AAE15044

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

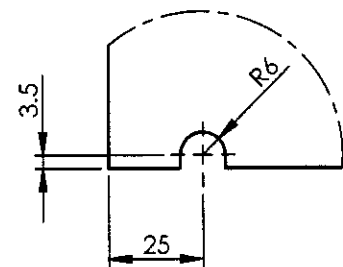
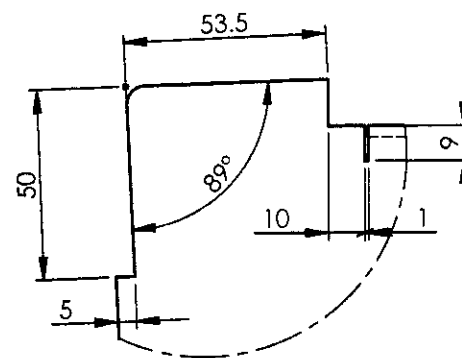
REVISIONS

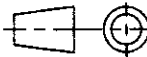
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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1



ISOMETRIC VIEW

DETAIL A
SCALE 1 : 2DETAIL B
SCALE 1 : 2

1	FLANGE	3x303x965	1		RDSO/SPEC C-K201 X2CrNi12	5.719	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B. Anil
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI - 600038							
					SHEET 1 OF 1		AAE15044

AAE15046

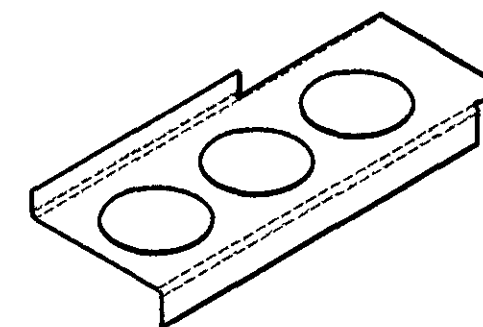
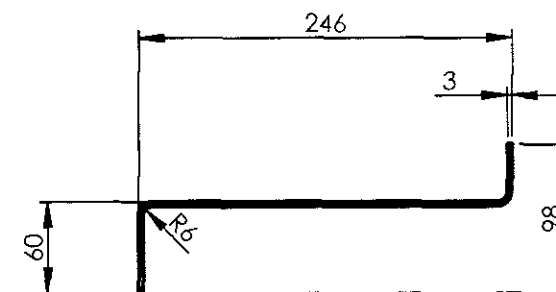
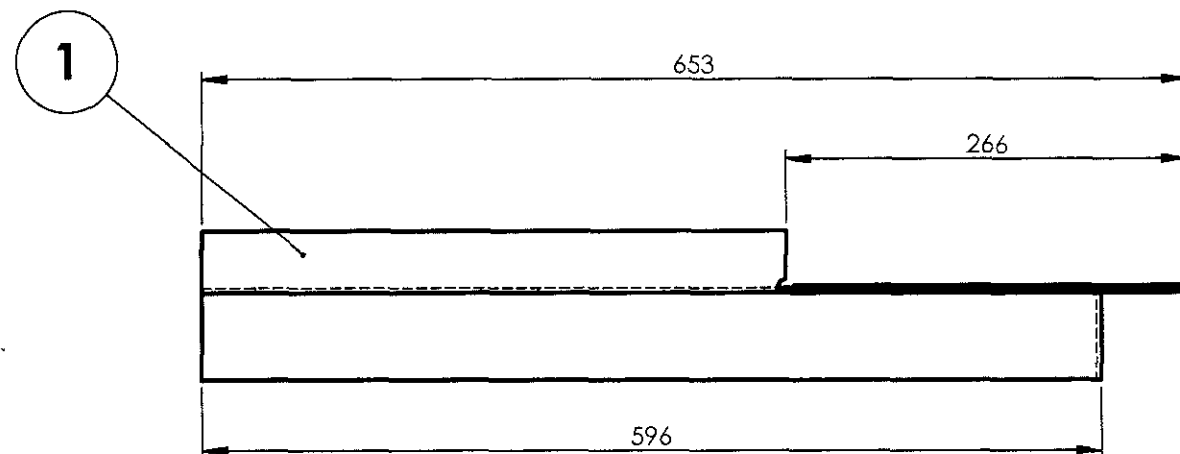
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①s CHAMFERED

REVISIONS

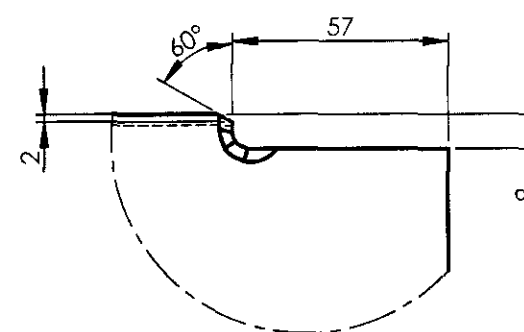
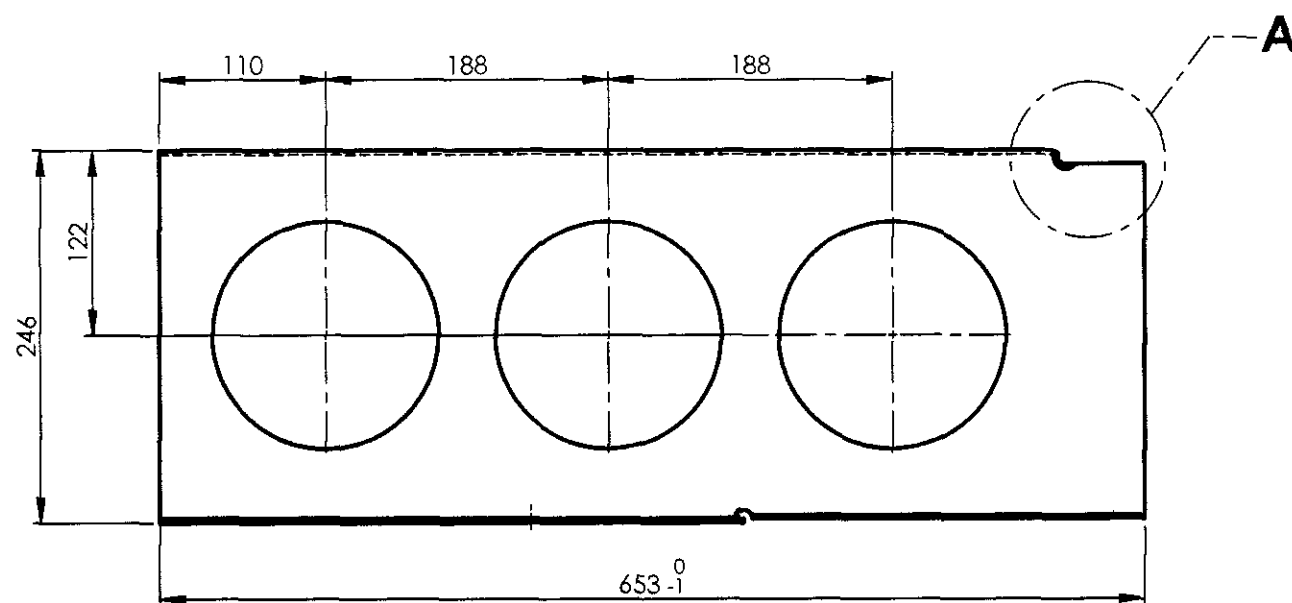
ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

ISOMETRIC VIEW

DETAIL A
SCALE 1 : 2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9.0.001.
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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

	201-07-25	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

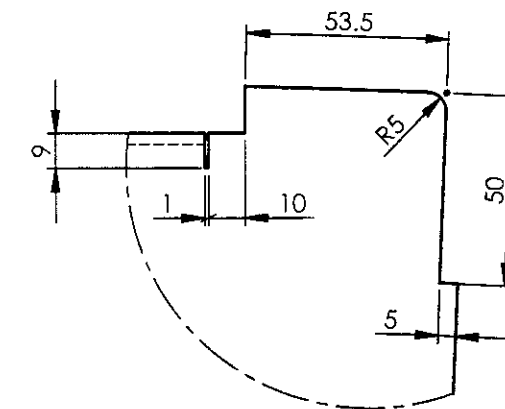
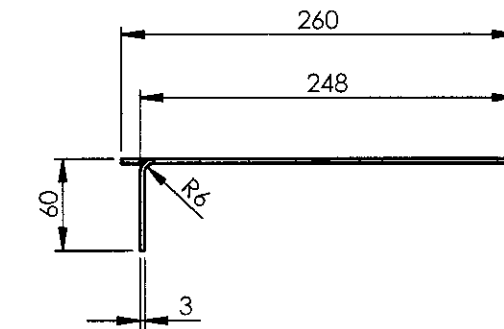
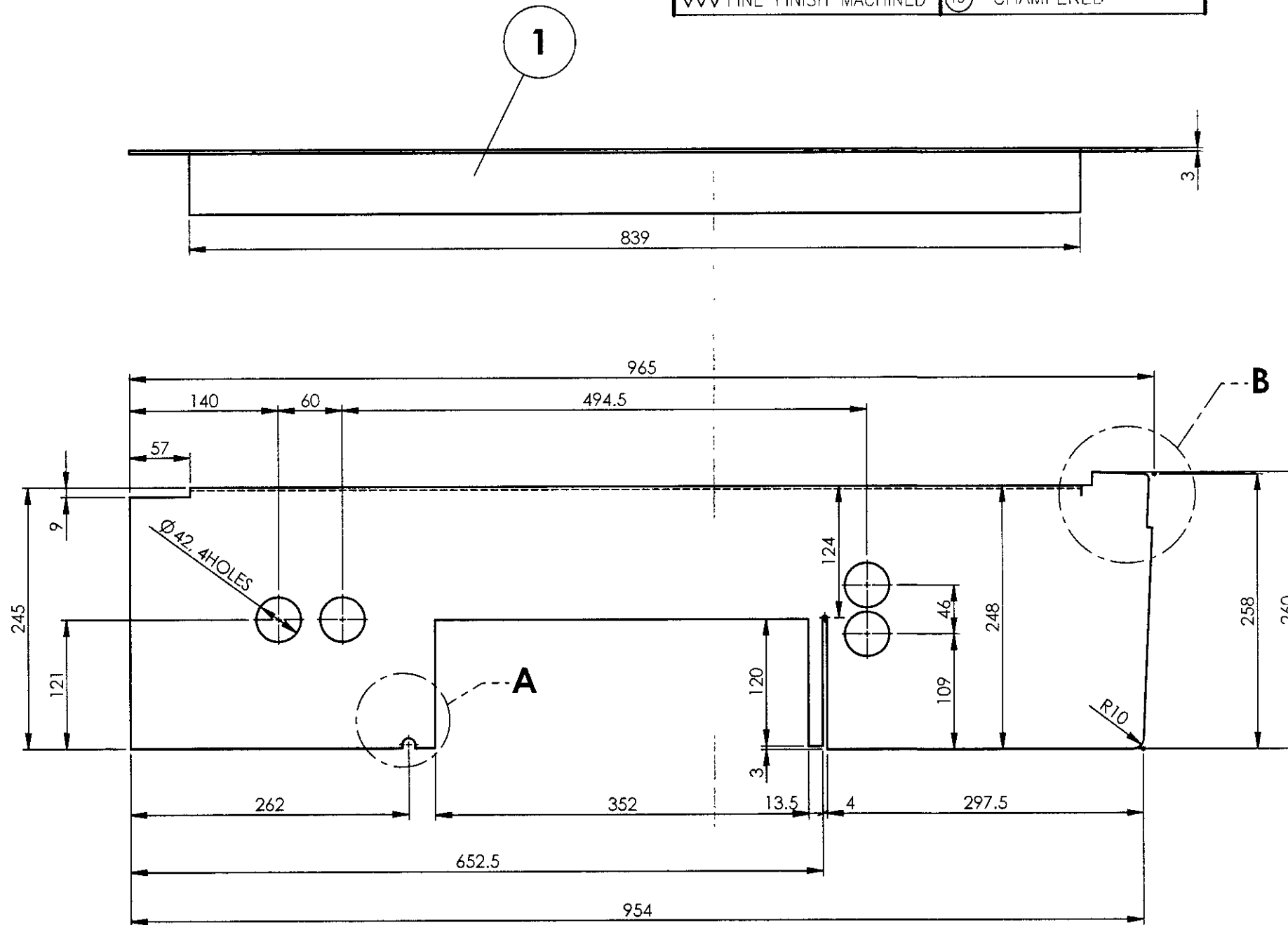
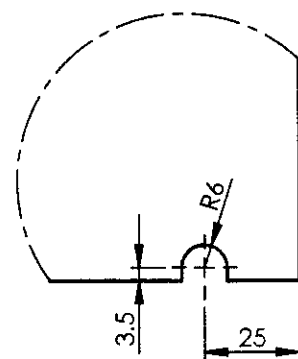
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QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE LH					SCALE 1:5	SSE/D CHD	B. Suresh
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAE15046	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

AAE15047

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①B CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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DETAIL B
SCALE 1 : 2DETAIL A
SCALE 1 : 2

1	FLANGE	3 x 303 x 945	1		RDSO/SPEC C-K201 X2CrNi12	5.581	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE 1:5	SSE/D CHD	B. Suresh
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15047		
					A3		

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REF.DRG.NO.

	30-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAE15048

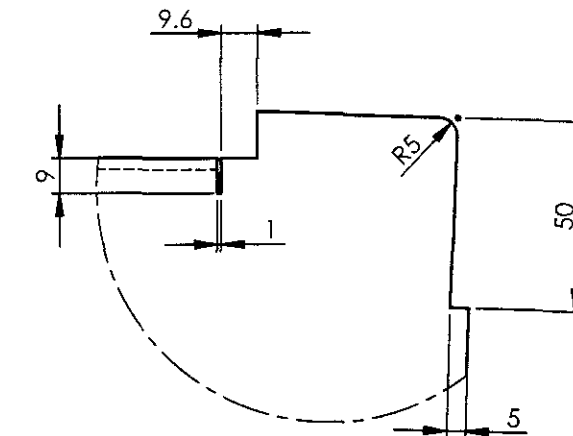
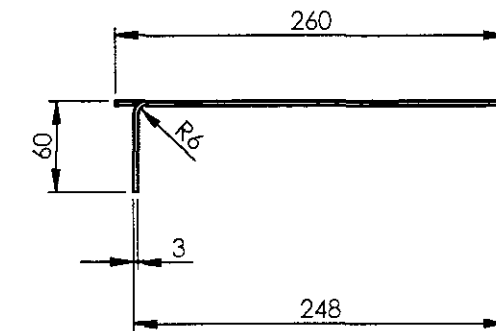
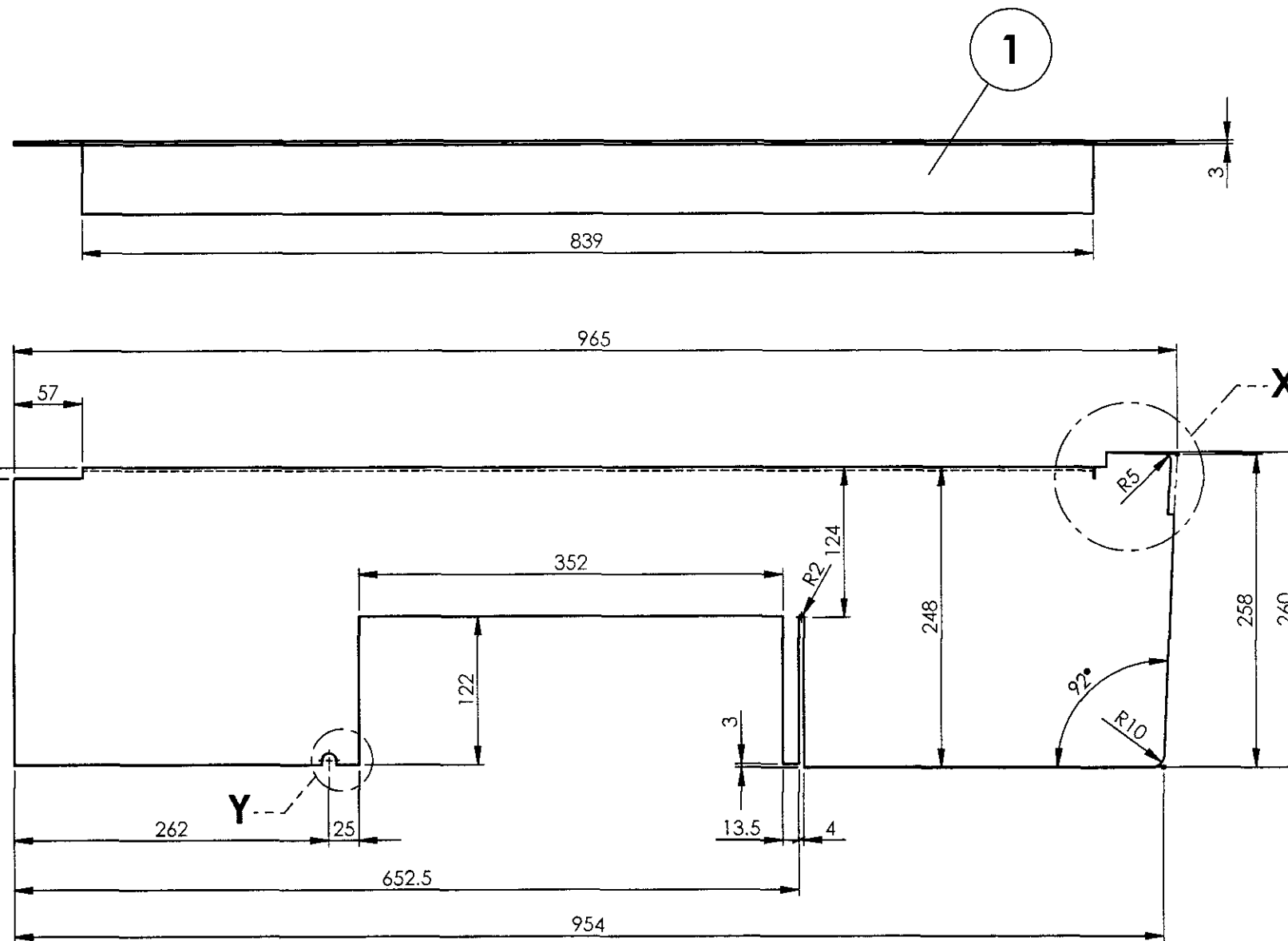
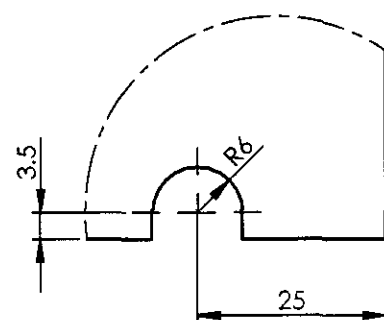
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS

ALT.

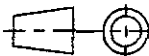
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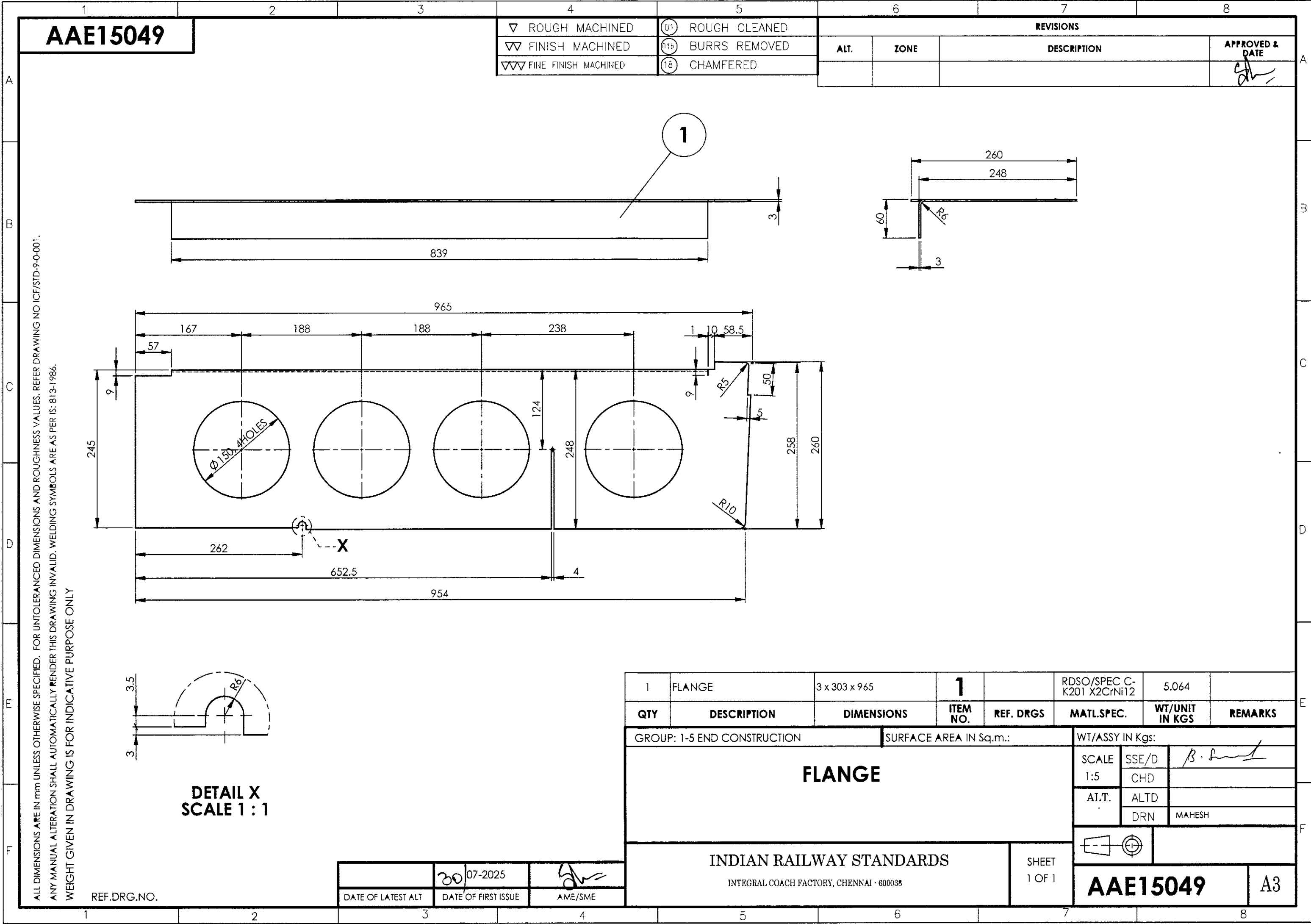
DESCRIPTION

APPROVED &
DATEDETAIL X
SCALE 1 : 2DETAIL Y
SCALE 1 : 1

REF.DRG.NO.

DATE OF LATEST ALT.	30-07-2025	AME/SME
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1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C-K201 X2CrNi12	5.702	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B. Suresh
					1:5	CHD	
					ALT.	ALTD	
					-	DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15048		A3



AAE15049

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①①① CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
			<i>[Signature]</i>

1

839

965

167

188

188

238

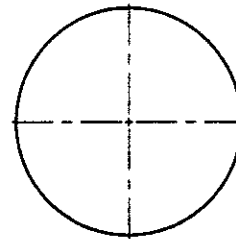
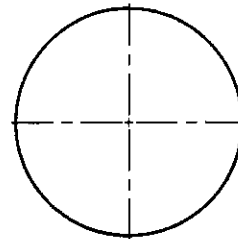
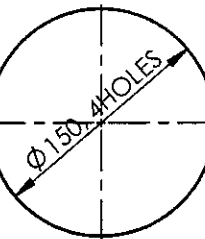
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10

58.5

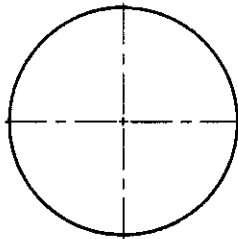
57

9



124

248



9

R5

50

5

R10

262

X

652.5

4

954


3.5

3

DETAIL X
SCALE 1 : 1

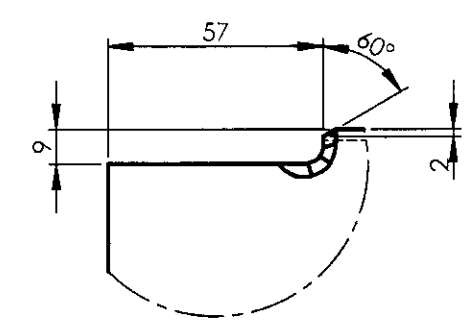
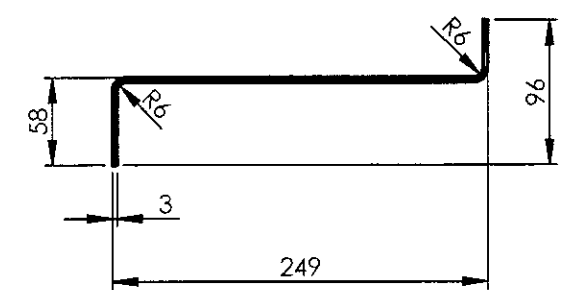
REF.DRG.NO.

	20/07-2025	<i>[Signature]</i>
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C-K201 X2CrNi12	5.064	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B. S
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15049		A3


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REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



A 3D perspective drawing of a rectangular plate. The plate has three circular holes arranged in a horizontal row. One edge of the plate is raised, forming a thin, rectangular lip. The drawing is a simple line art illustration.

ISOMETRIC VIEW

-	30-07-25	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAE15065

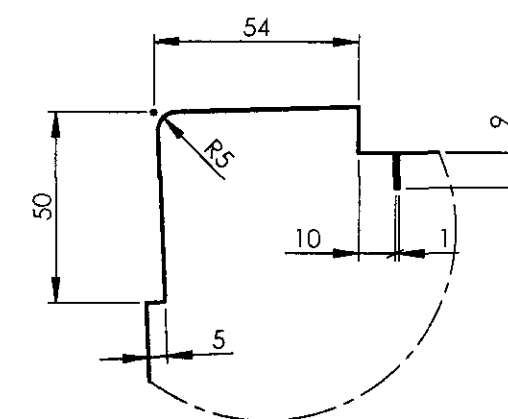
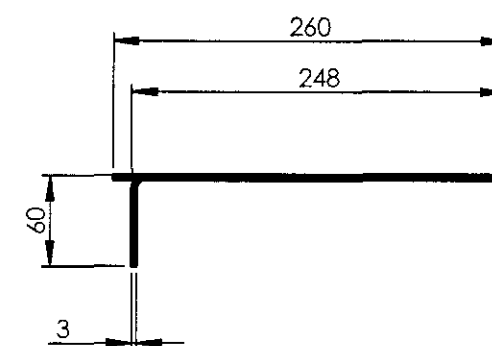
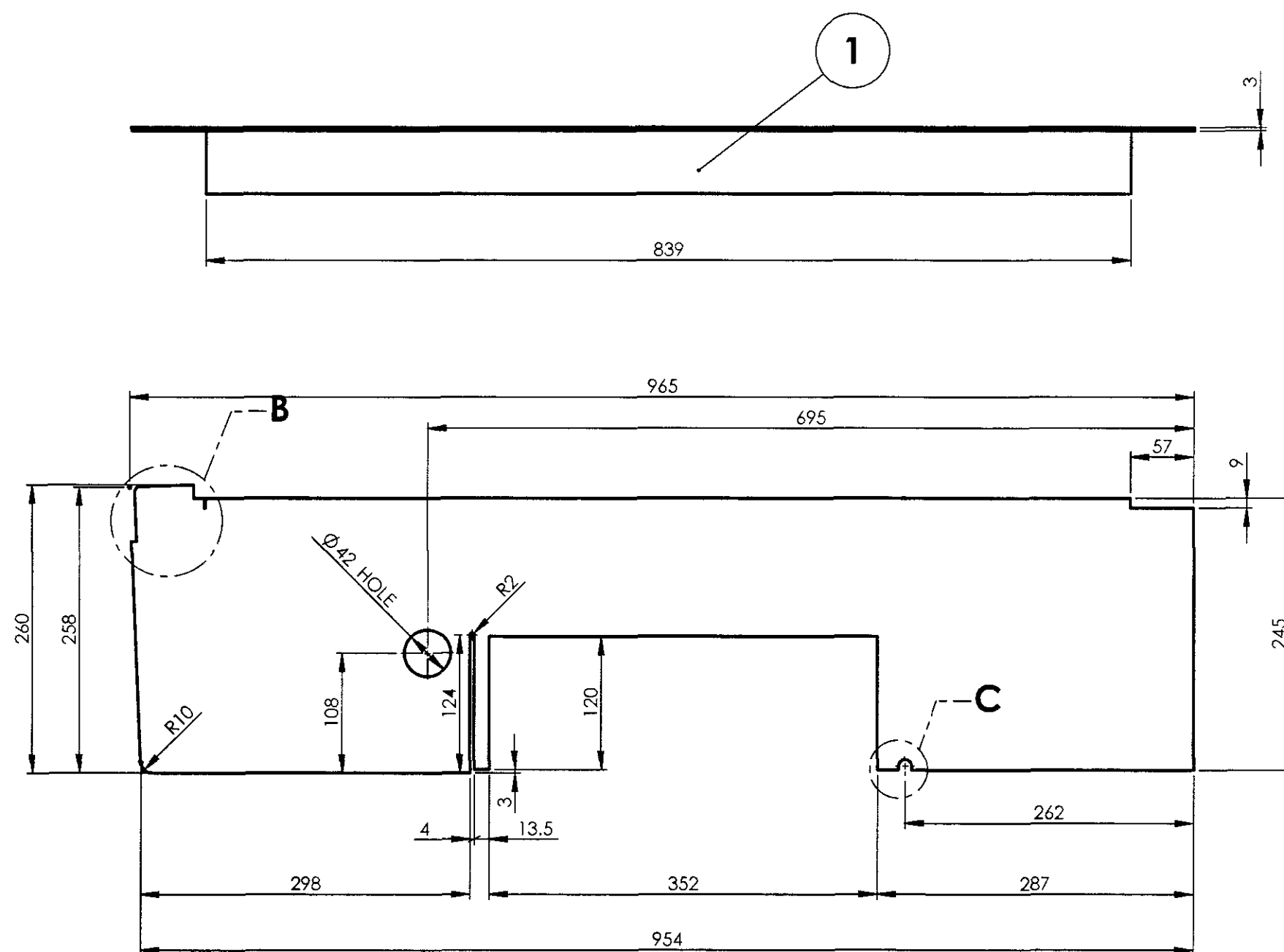
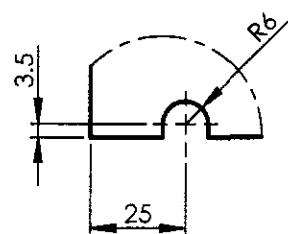
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATEDETAIL B
SCALE 1 : 2DETAIL C
SCALE 1 : 2

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REF.DRG.NO.

30-07-2025		
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C- K201 X2CrNi12	5.686	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE	SSE/D	B. L.
					1:10	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS					DRN	SURESH B	
					A3		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15065		
SHEET 1 OF 1							

AAE15066

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

①b BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

①8 CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1

839

260

248

60

R6

3

965

57

9

245

124

120

109

248

B

258

260

R10

262

352

3

38

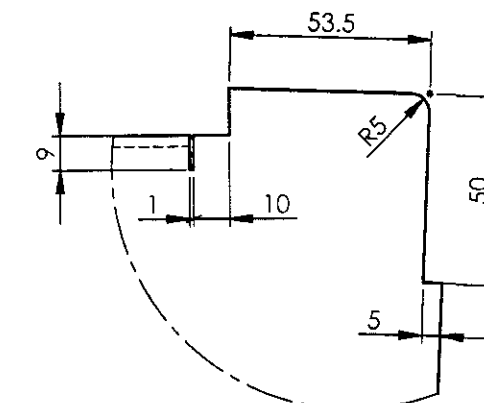
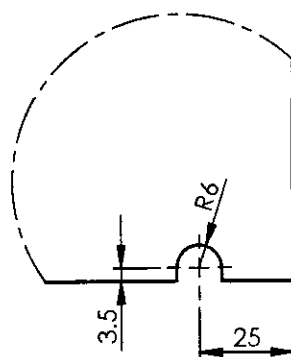
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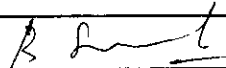
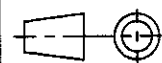
297.5

652.5

954

A

DETAIL B
SCALE 1 : 2DETAIL A
SCALE 1 : 2

1	FLANGE	3 x 303 x 945	1		RDSO/SPEC C-K201 X2CrNi12	5.681	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	SURESH B
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		AAE15066

REF.DRG.NO.

DATE OF LATEST ALT

30-07-2025

DATE OF FIRST ISSUE

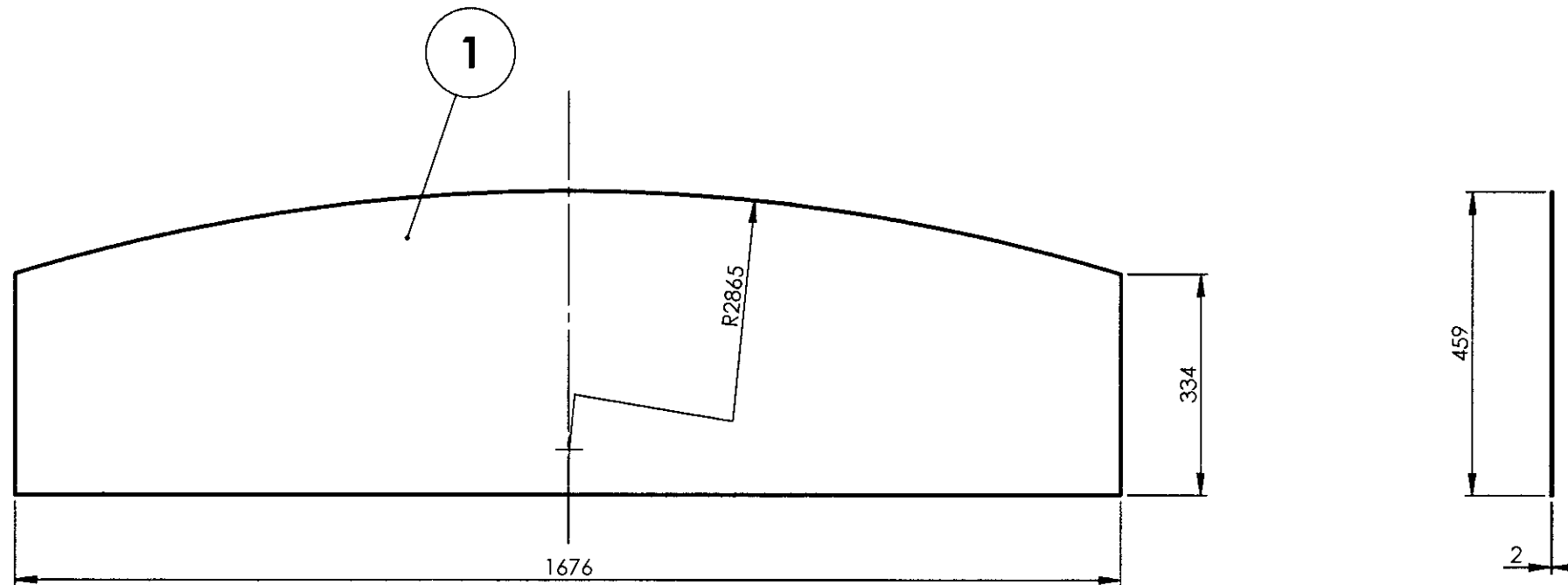
AME/SME

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

AAE15067

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

	01-08-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

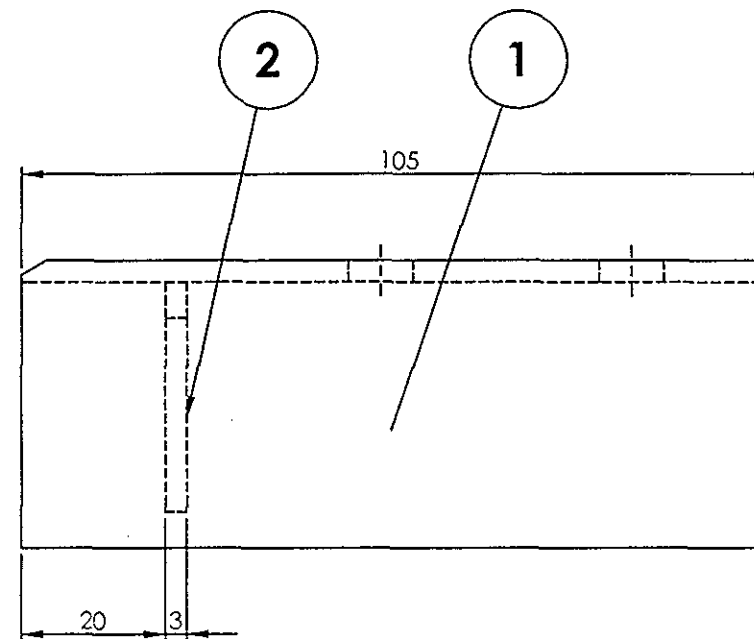
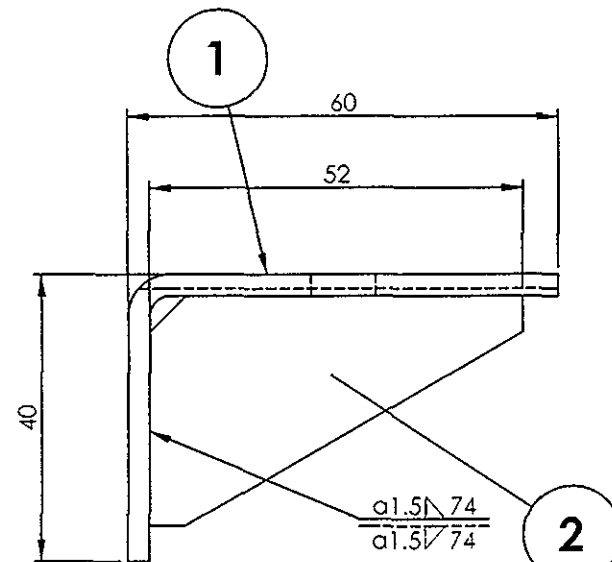
1	END WALL TOP SHEET	2x459x1676	1		RDSO/SPEC C-K201 X2CrNi12	11.206	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.: 1.147			WT/ASSY IN Kgs:		
END WALL TOP SHEET					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	
						DRN	3D: SURESH B 2D: MAHESH
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		
					AAE15067		A3

SSA10019

▽ ROUGH MACHINED	⊙ ROUGH CLEANED
▽▽ FINISH MACHINED	⊙⊙ BURRS REMOVED
▽▽▽ FINISH MACHINED	⊙⊙ CHAMFERED

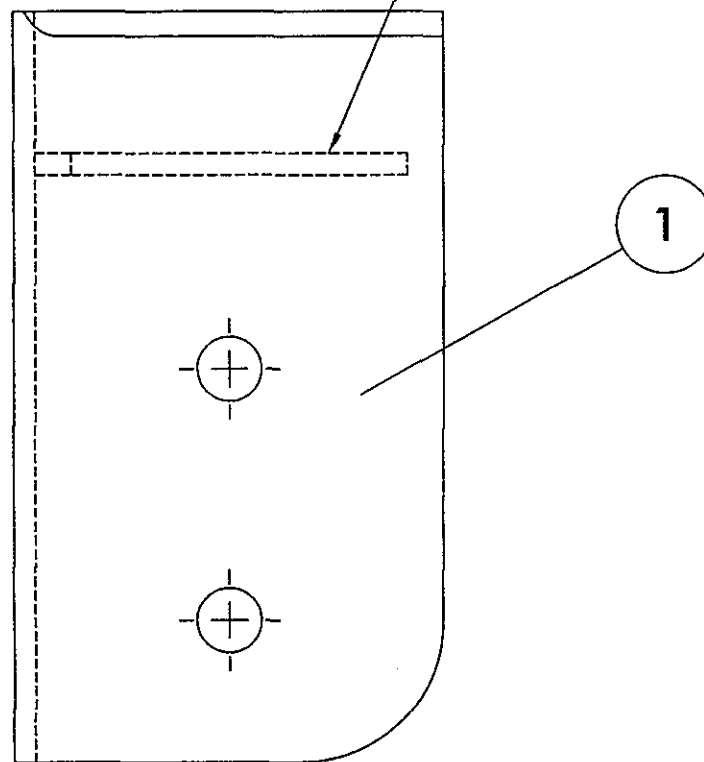
REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.



1	WEB		2	AAA10974		0.024	
1	ANGLE		1	AAA10975		0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.023			WT/ASSY IN Kgs:0.257		
BRACKET					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							-
					SHEET 1 OF 1		SSA10019

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.3 10113.0.20.095.018

10-04-2013	10/1/17
DATE OF LATEST ALT.	DATE OF FIRST ISSUE
AME/SME	

SSA10020

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

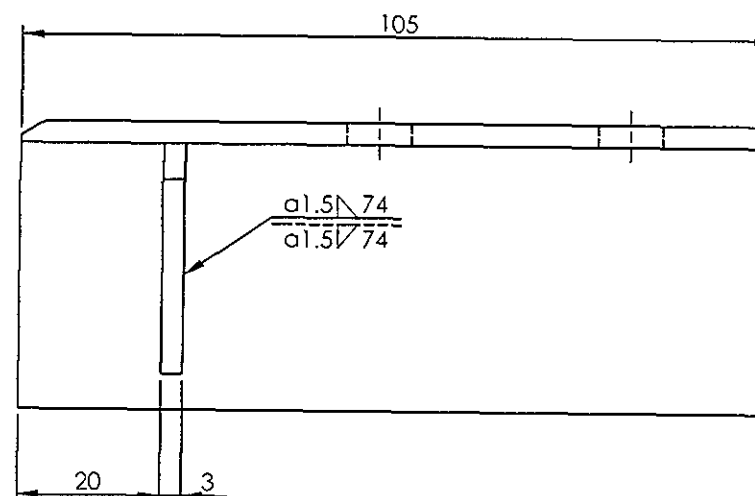
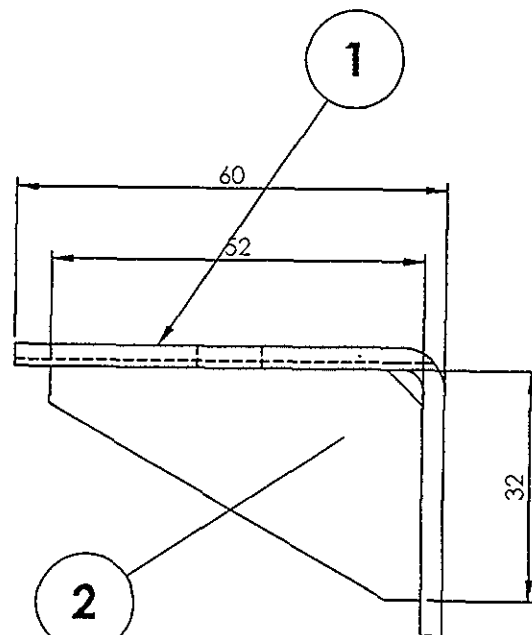
③ CHAMFERED

REVISIONS

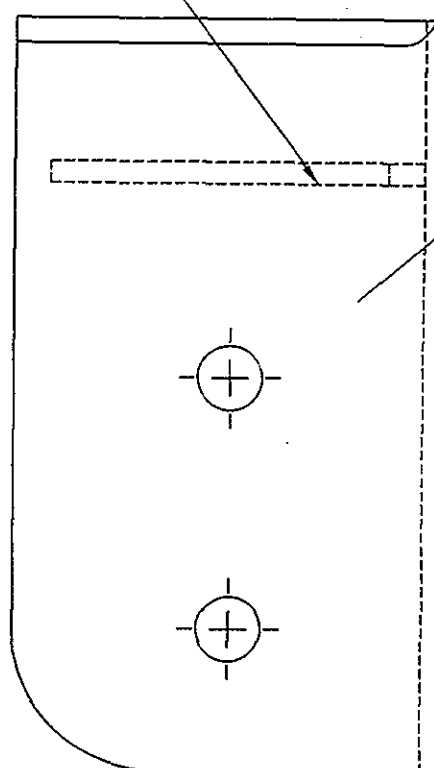
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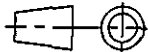
ZONE

DESCRIPTION

APPROVED &
DATE**NOTE:**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.



1	WEB		2	AAA10974		0.024	
1	ANGLE		1	AAA10973		0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-0			SURFACE AREA IN Sq.m.:0.023		WT/ASSY IN Kgs:0.257		
BRACKET					SCALE	SSE/D	<i>h.panduranga</i>
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			-
					SSA10020		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD 9 0 001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.3 10113.0.20.095.019

DATE OF LATEST ALT.

10-04-2013

DATE OF FIRST ISSUE

AME/SME

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038


SHEET
1 OF 1

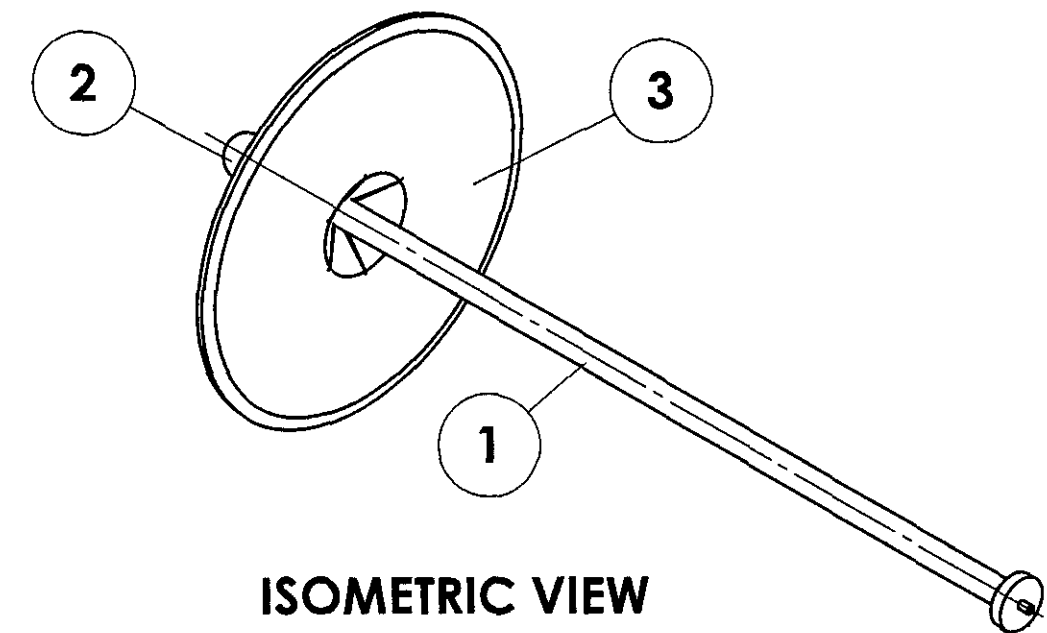
SSA10020

A3

49516008

▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	01b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	18 CHAMFERED

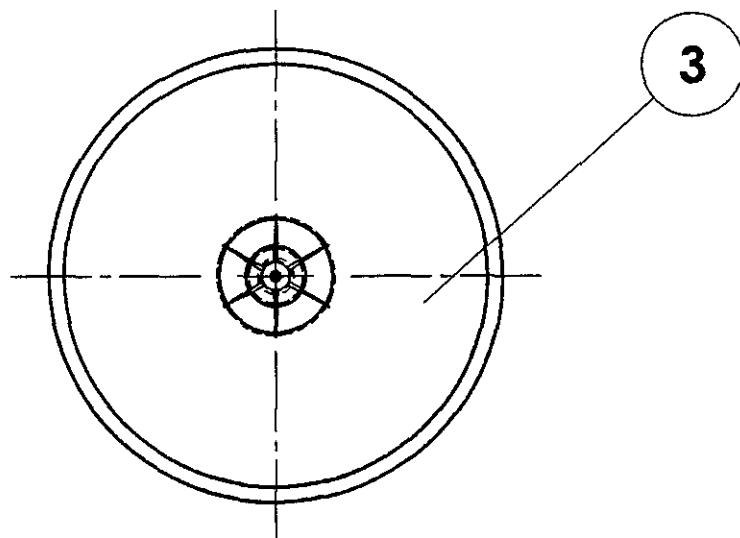
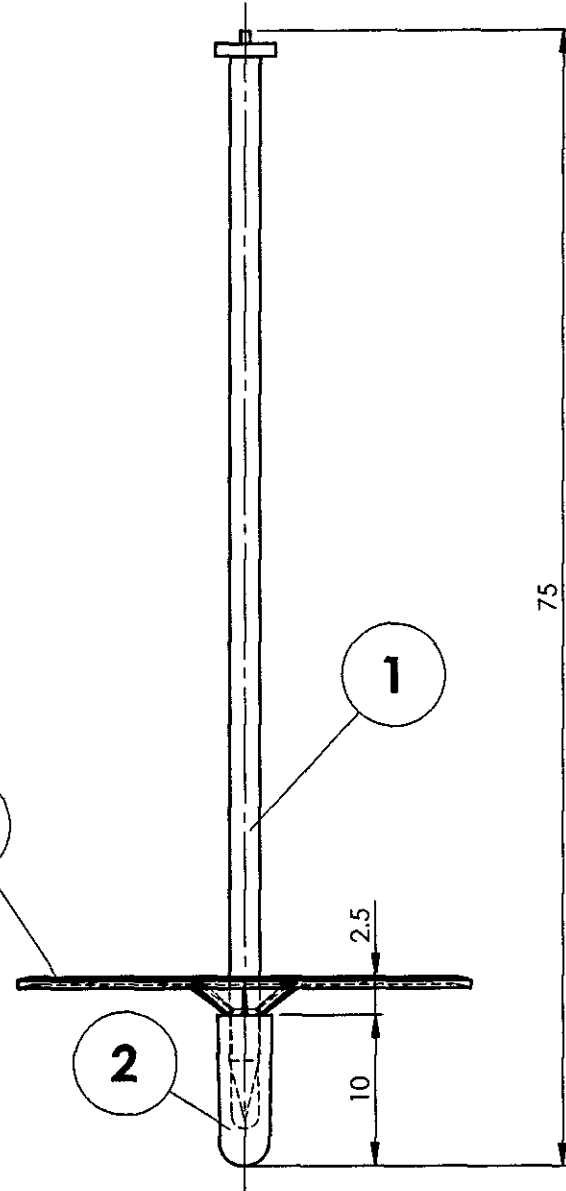
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE REVISED. VIEWS UPDATED AS PER DETAIL.	



ISOMETRIC VIEW

NOTE:

- ITEM-1 TO BE RESISTANCE WELDED AS SHOWN IN THE RESPECTIVE DRAWING AND ITEMS-2&3 TO BE SUPPLIED IN LOOSE (TO BE ASSEMBLED IN FURNISHING AFTER INSERTING THERMAL INSULATION).
- 5% EXCESS QTY OF ITEMS-2&3 TO BE SUPPLIED AGAINST THE QTY CALLED FOR IN THE RESPECTIVE ASSEMBLY DRAWINGS.



1	SERRATED SPRING WASHER		3	AAA16495		0.003	
1	CAP		2	AAA16494		0.000	
1	WELDING PIN		1	AAA16493		0.002	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 ROOF CONSTRUCTION

SURFACE AREA IN Sq.m.:0.002

WT/ASSY IN Kgs:

WELDING PIN ASSEMBLY

SCALE 1:1	SSE/D CHD	
ALT. a	ALTD DRN	A.Palanichamy 3D:A.Palanichamy 2D:P.Murugan

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

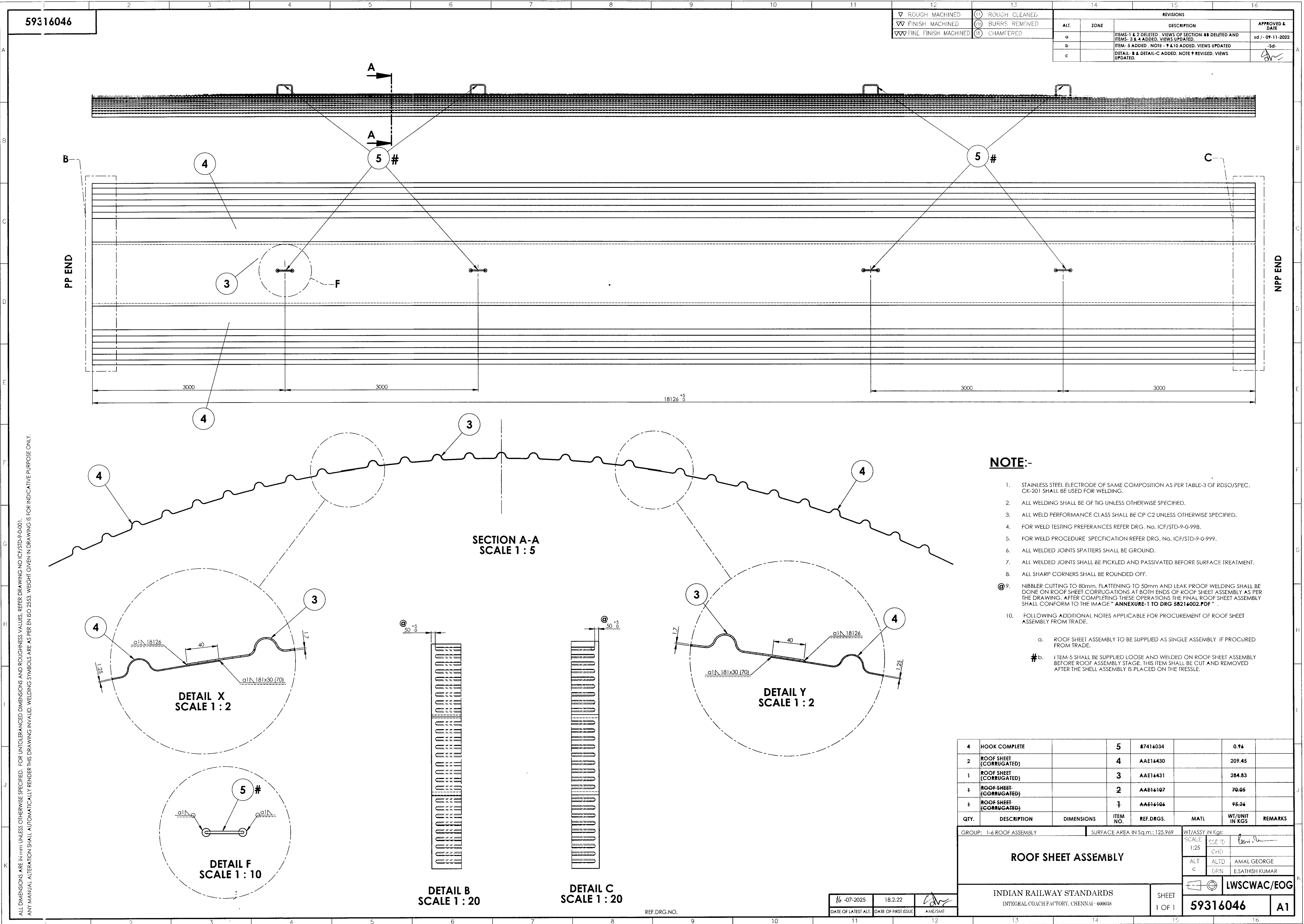
LWGSCWAC2

49516008 A3

06-02-2024	19-07-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.mi005176

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83016001

▽ ROUGH MACHINED	① ROUGH CLEANED
▽ FINISH MACHINED	② BURRS REMOVED
▽ FINE FINISH MACHINED	③ CHAMFERED

CUTAWAY OF 300x300 SHALL BE CUT IN SHEET ASSY TO SUIT ITEM-5

PP END

NPP END

SECTION A-A
SCALE 1 : 10SECTION C-C
SCALE 1 : 10VIEW FROM B
SCALE 1 : 10DETAIL G
SCALE 2 : 5

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 216.5		WT/ASSY IN Kgs:	
ROOF COMPLETE		SCALE	SSE/D	CHD	
		1:40			
		ALT	ALTD		
			TRN	Amal George	
INDIAN RAILWAY STANDARDS		SHEET		LWCBAC/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038		1 OF 2		83016001	
				A1	

REF.DRG.NO.LH16188 ALT 0

DATE OF LATEST ALT.	11-07-2025	DATE OF FIRST ISSUE	AME/SME
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ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

83016001

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
② BURRS REMOVED
③ CHAMFERED

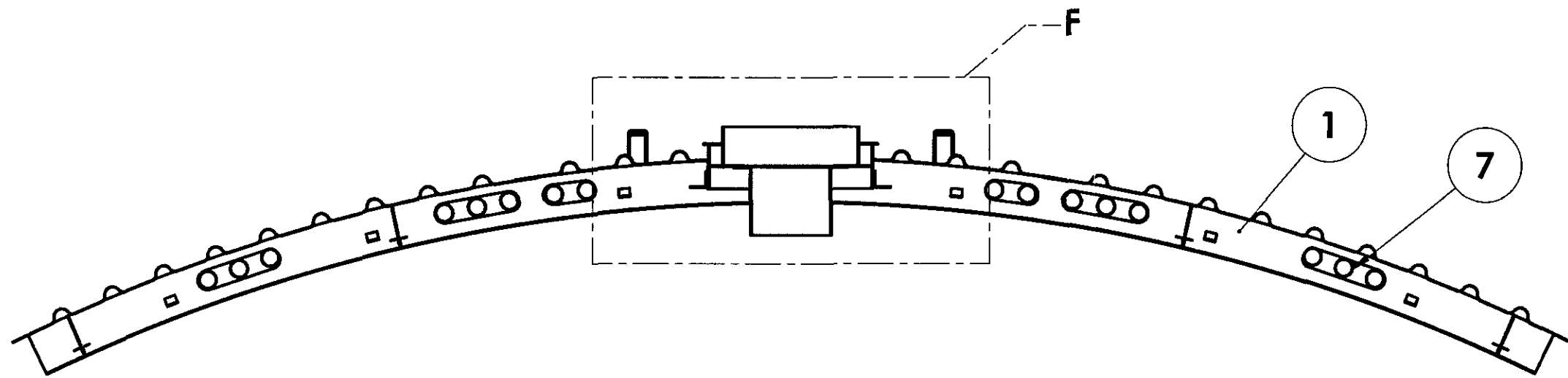
REVISIONS

ALT.

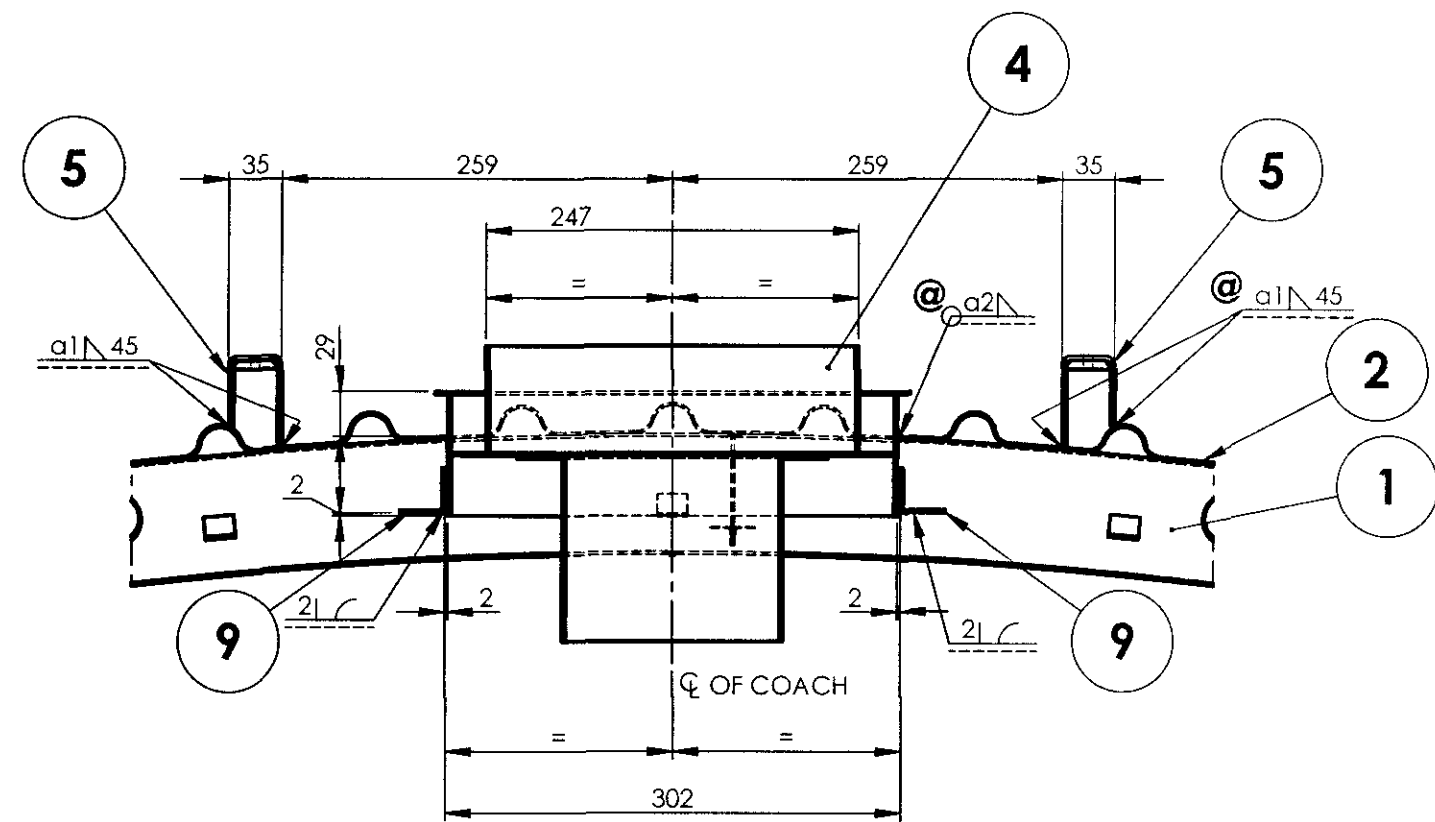
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DESCRIPTION

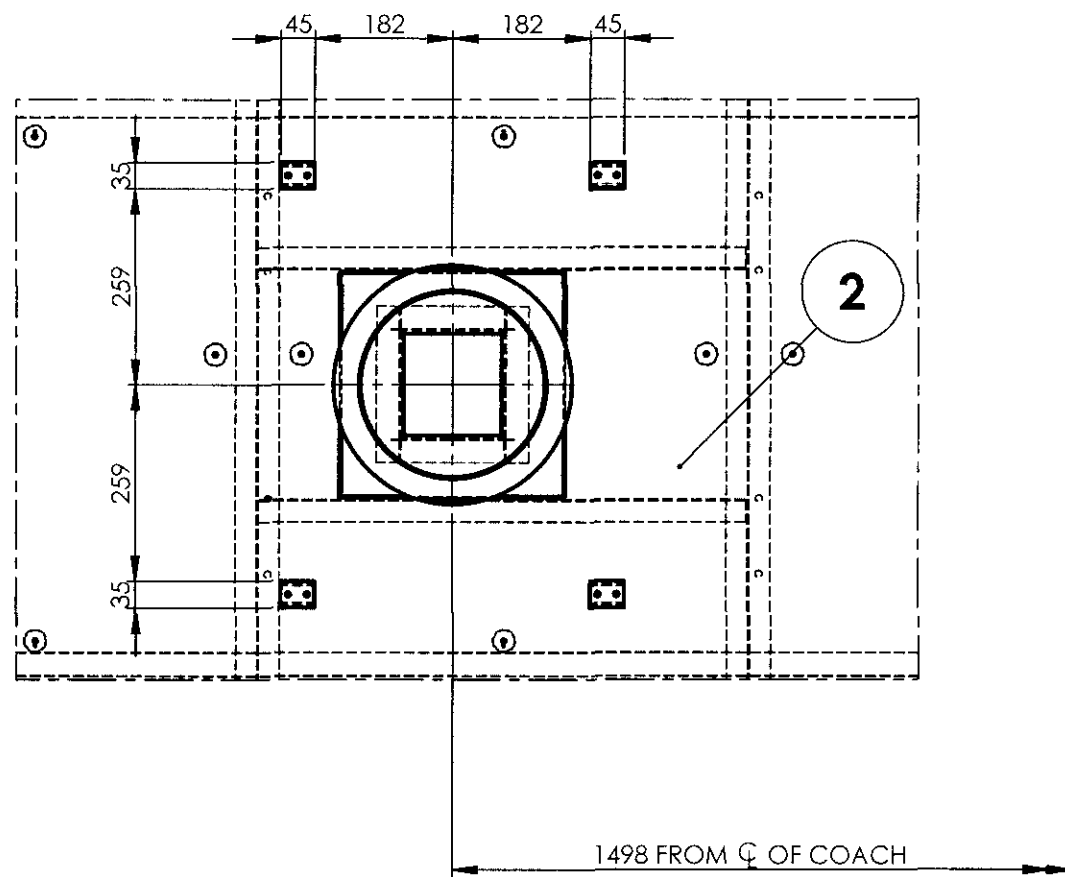
APPROVED & DATE



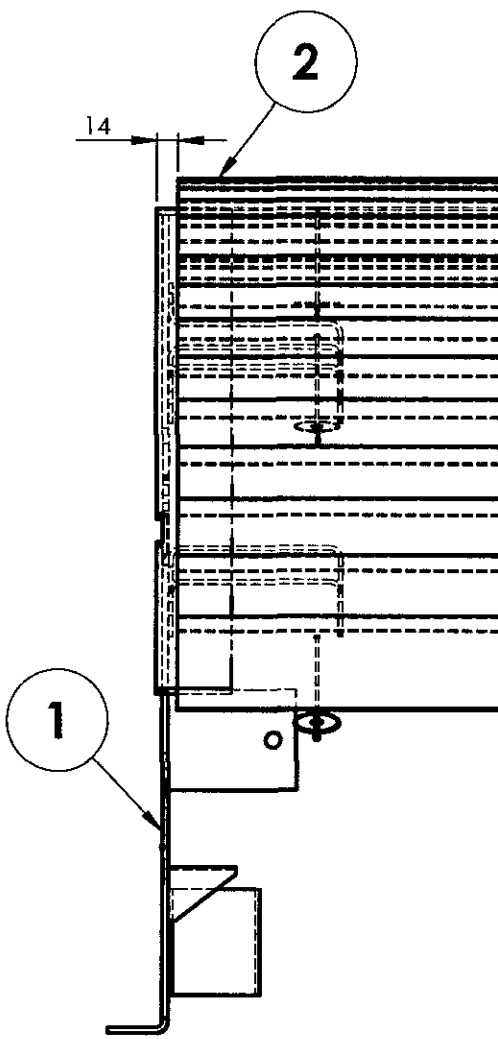
SECTION E-E
SCALE 1 : 10



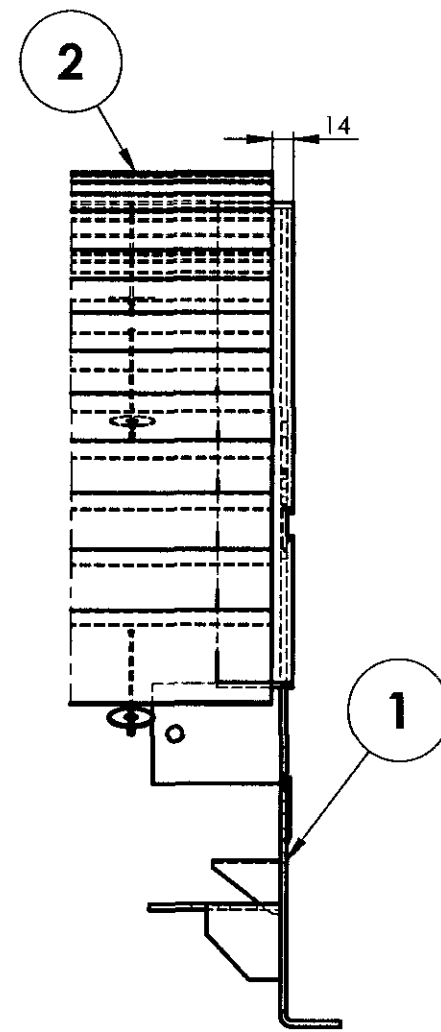
DETAIL F
SCALE 1 : 5



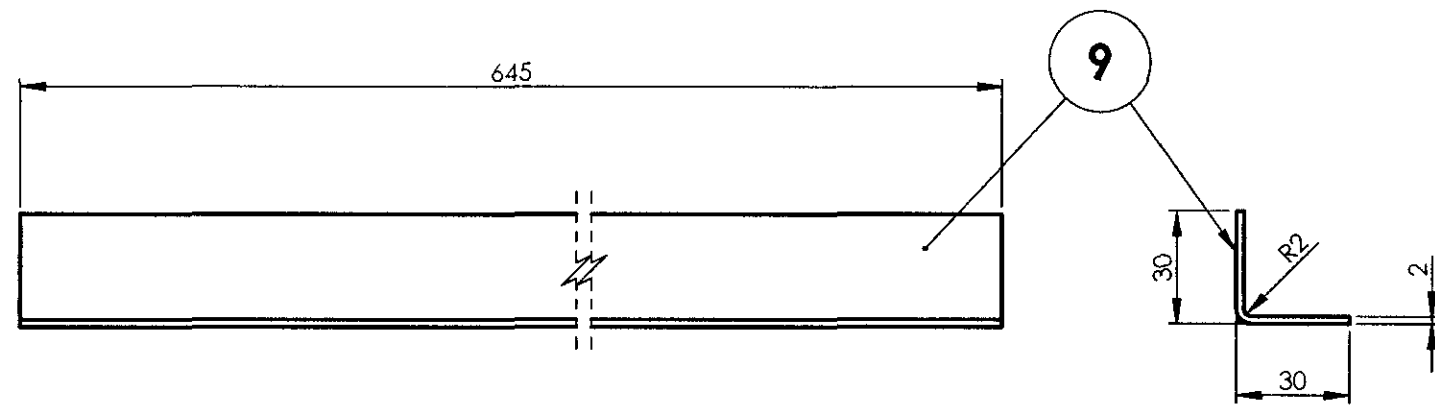
DETAIL H
SCALE 1 : 10



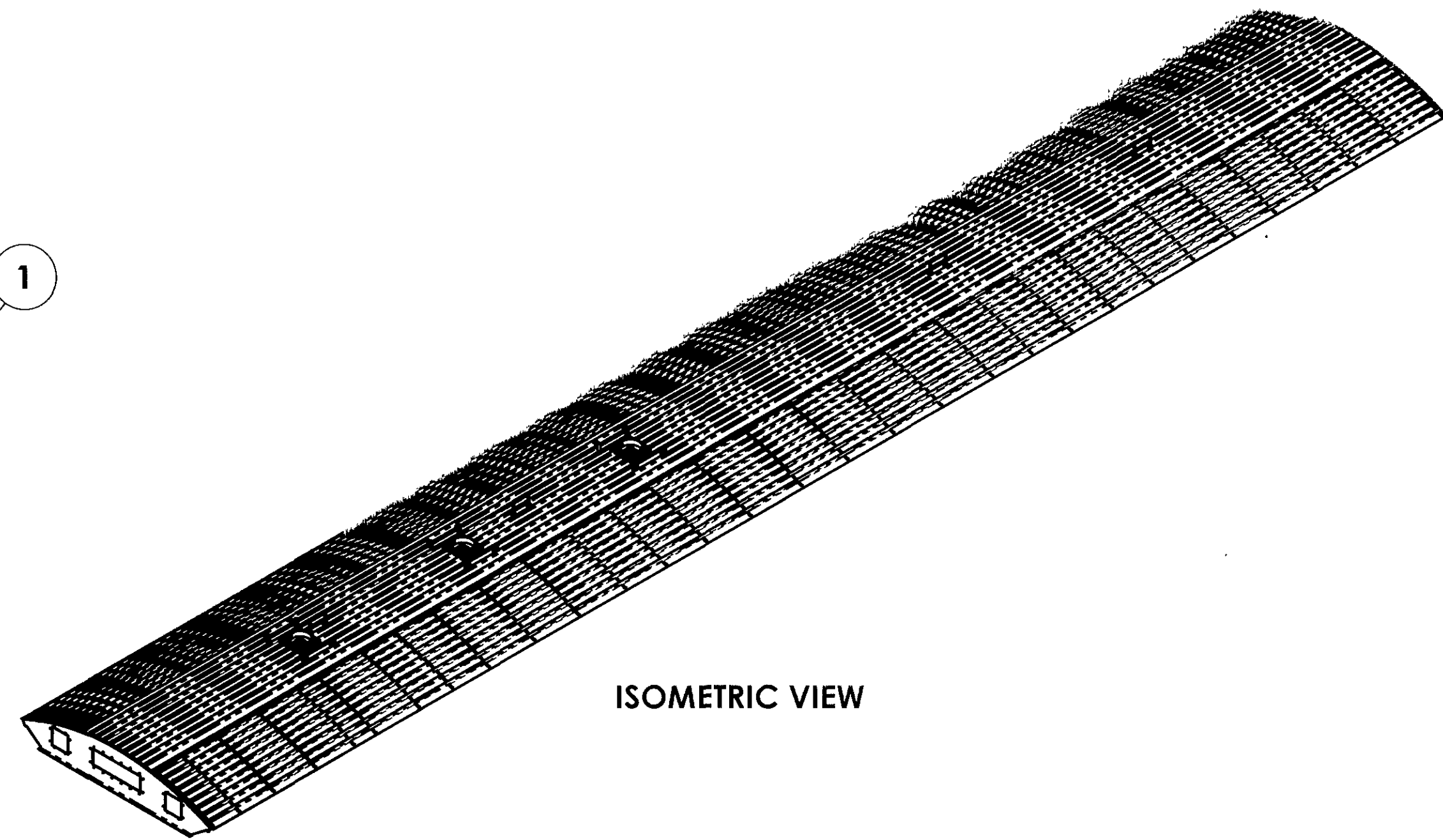
DETAIL J
SCALE 1 : 5



DETAIL K
SCALE 1 : 5



DETAIL FOR ITEM-8
SCALE 1 : 2


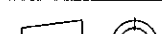


ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY)ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC/231.
10. ITEM-3 (NAME PLATE) SHALL BE WELDED OR RIVETED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
11. LEAK PROOF WELDING SHALL BE ENSURED.
12. CUTAWAY OF 300x300 SHALL BE PROVIDED IN ITEM-2(ROOFSHEET ASSEMBLY) IN ASSY. STAGE TO SUIT ADAPTER ASSY FOR VENTILATOR(ITEM-4).
13. SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURE OF SIDEWALL/ ROOF ASSEMBLY SHALL COMPLY TO ICF/M/D/SPEC-200 LATEST REVISION.
14. MARKING OF CENTRELINER SHALL BE DONE AS PER DRAWING No. 83016016

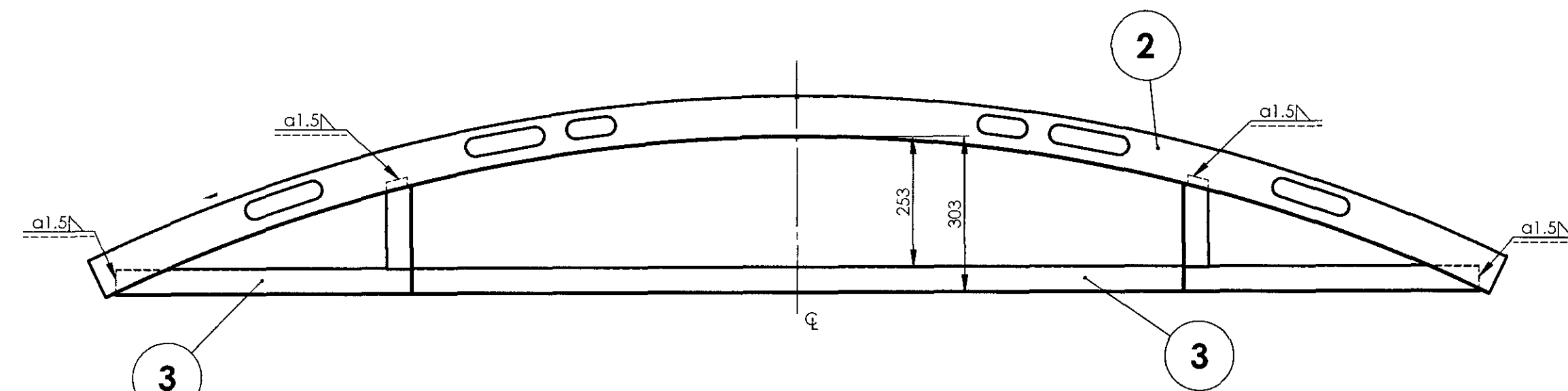
4	ANGLE	2x56x645	9		RDSO SPEC C-K201 X2 C/ NI 12	0.59	
1	WELDING PIN ARRANGEMENT		8	83014015		1.76	
1	LAYOUT OF CONDUITS		7	83014013		204.58	
1	WELDING PARTS ON ROOF		6	83014004		48.82	
12	BRACKET FOR FIXING ROOF VENTILATOR		5	98114026		0.19	
3	ADAPTER ASSEMBLY FOR VENTILATOR		4	85614006		5.37	
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		3	AAA51072		0.04	
1	ROOF SHEET ASSEMBLY		2	59314046		707.55	
1	LOCATION OF ROOF ARCHES		1	83014002		285.23	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 216.5		WT/ASSY IN Kgs:		
ROOF COMPLETE				SCALE 1:40	USE: 0 	
				CHD		
				ALT -	ALTD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				DRN	Amol George	
						LWCBAC/PP2
				SHEET 2 OF 2		83016001

REF.DRG.NO.LH16188 ALT a

16-07-2025
DATE OF LATEST ALT. DATE OF FIRST ISSUE
AME/SME

12		13		14		15		16	
▽ ROUGH MACHINED		(11) ROUGH CLEANED		REVISIONS					
▽▽ FINISH MACHINED		(12) BURRS REMOVED		ALT.	ZONE	DESCRIPTION	APPROVED & DATE		
▽▽▽ FINE FINISH MACHINED		(13) CHAMFERED							




SECTION E-E
SCALE 1 : 5

A diagram of a curved roof structure, likely a dome or a vaulted ceiling, showing three rectangular panels arranged horizontally. The central panel is labeled '1' with a callout line. The panels are separated by vertical lines, and the entire structure is bounded by a curved line representing the roof's profile. The diagram is a technical drawing of a building's interior or exterior structure.


NOTE:

- | | | | | | | | |
|-----|------------------------|------------|----------|-----------|------|----------------|---------|
| 11 | CROSS BRACE COMPLETE | | 3 | 83014014 | | 4.75 | |
| 29 | ROOF ARCH | | 2 | AAF14144 | | 5.58 | |
| 2 | END ROOF ARCH COMPLETE | | 1 | 83014005 | | 35.626 | |
| QTY | DESCRIPTION | DIMENSIONS | ITEM NO. | REF.DRGs. | MATL | WT/UNIT IN KGS | REMARKS |

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 31.95		WT/ASSY IN Kgs:	
LOCATION OF ROOF ARCHES		SCALE		S.E./D	
		1:50		CHE/	
		ALT		ALTD	
		URN		Amal George	
INDIAN RAILWAY STANDARDS		SHEET		 LWCBC/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038		1 OF 1		83016002	
				A1	

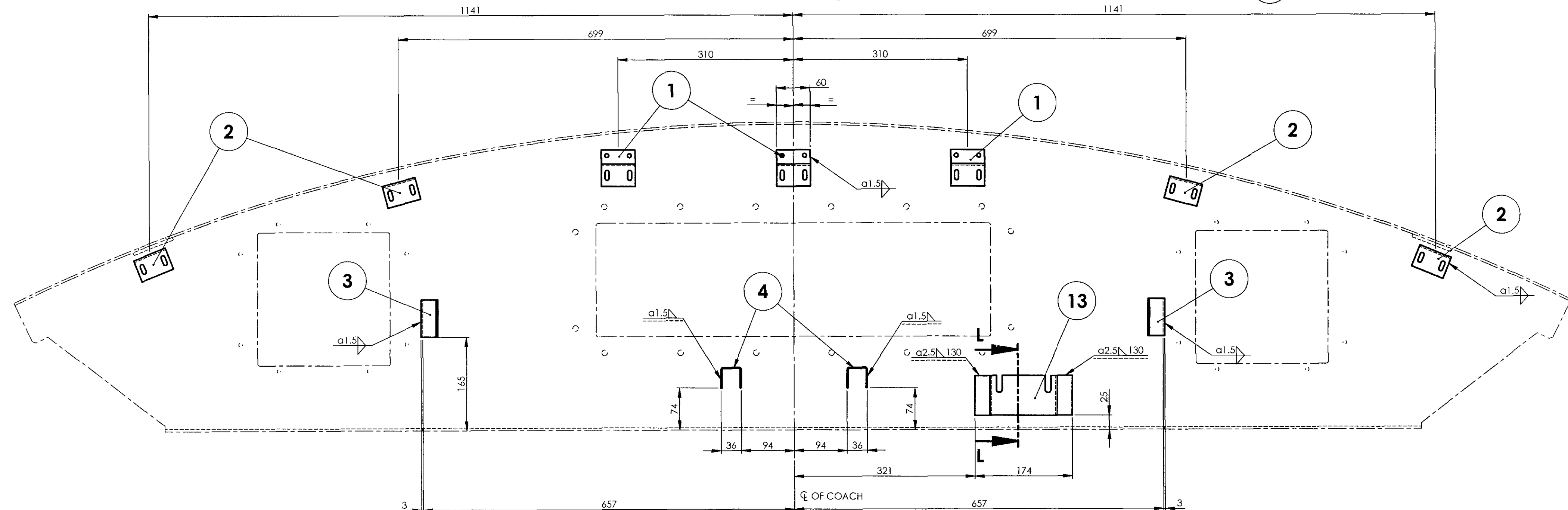
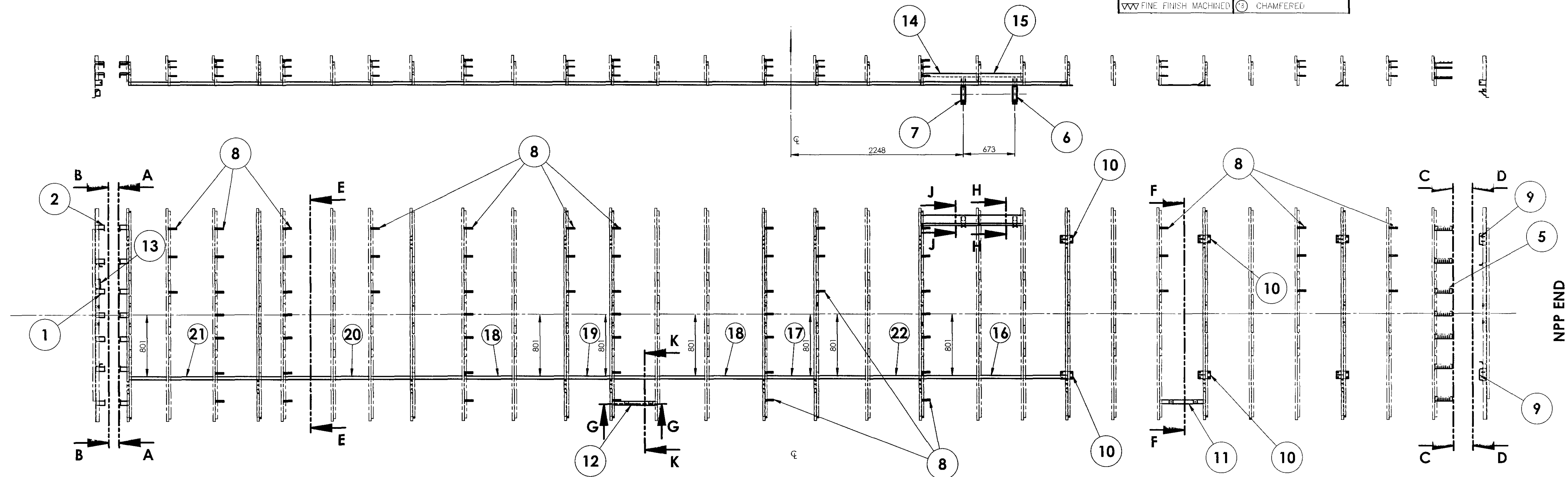
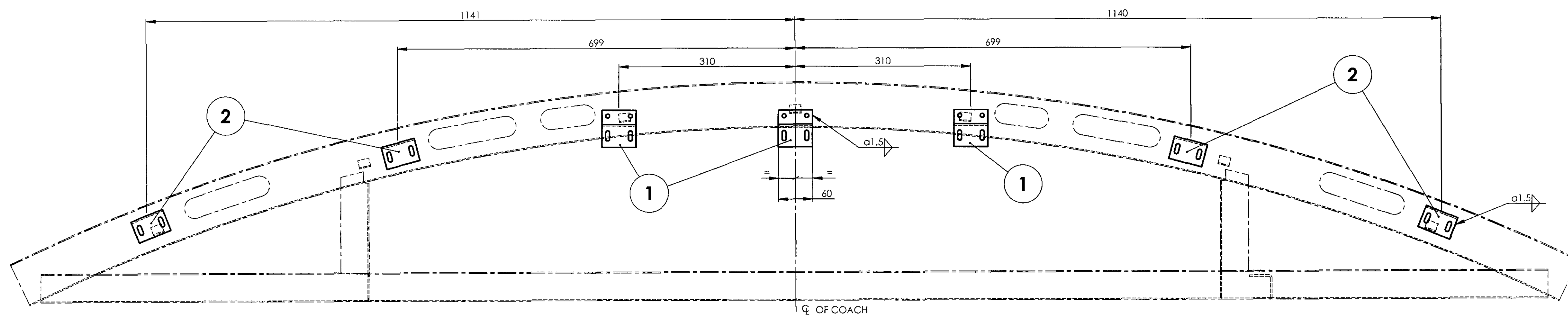
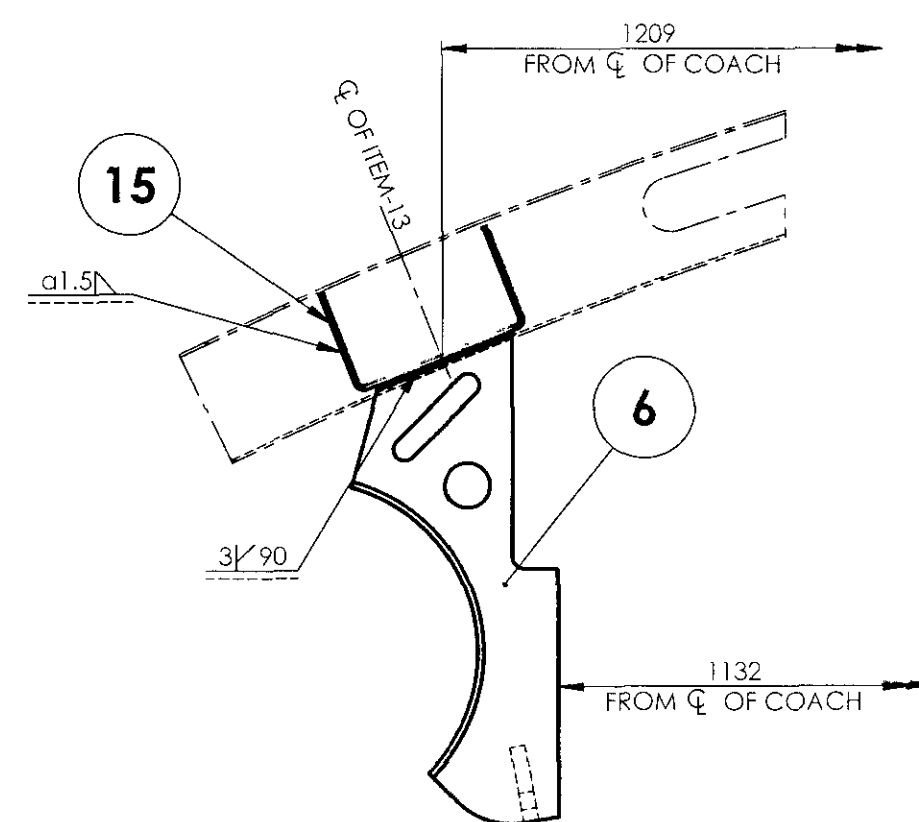
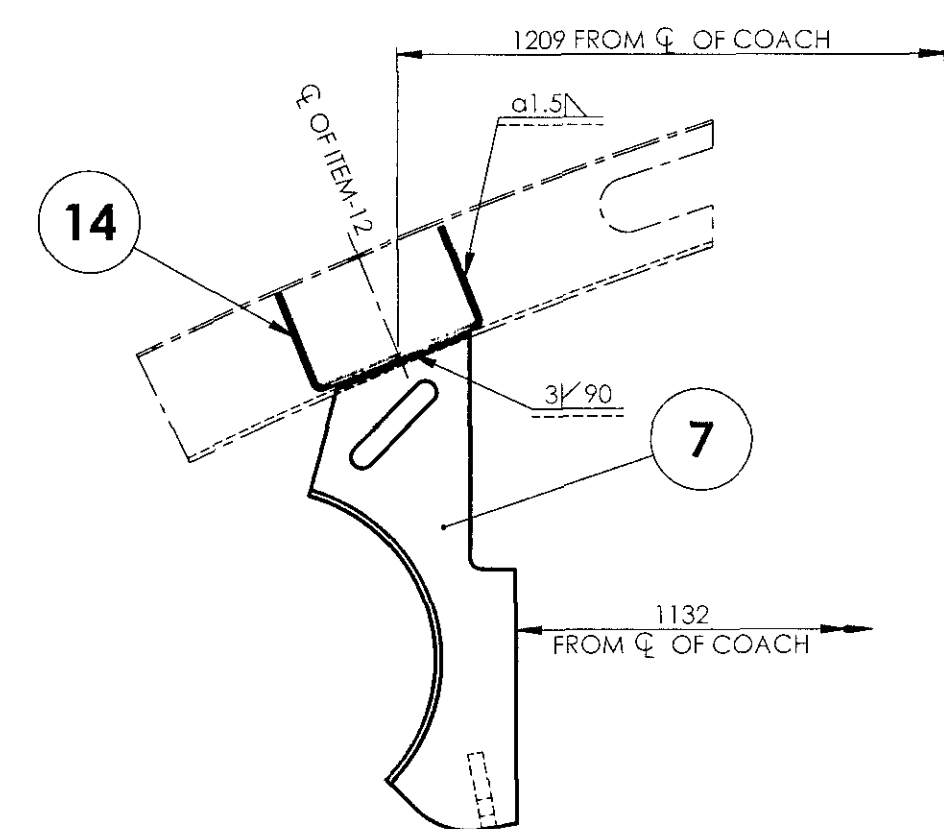
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-001.
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REF.DRG.NO.LH16188 ALT c

	16 -07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

83C16004

▽ ROUGH MACHINED	(11) ROUGH CLEANED
▽▽ FINISH MACHINED	(12) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(13) CHAMFERED

SECTION A-A
SCALE 1 : 5SECTION B-B
SCALE 1 : 5SECTION H-H
SCALE 1 : 5SECTION J-J
SCALE 1 : 5

GROUP: 1-6 Roof Construction	SURFACE AREA IN Sq.m.: 36.3	WT/ASSY IN Kgs:
WELDING PARTS ON ROOF		SCALE 1:30
		SSE/D
		CHD
		ALT.
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		ALTD
SHEET 1 OF 3		DRN Amal George
83016004		LWCBAC/PP2
A1		

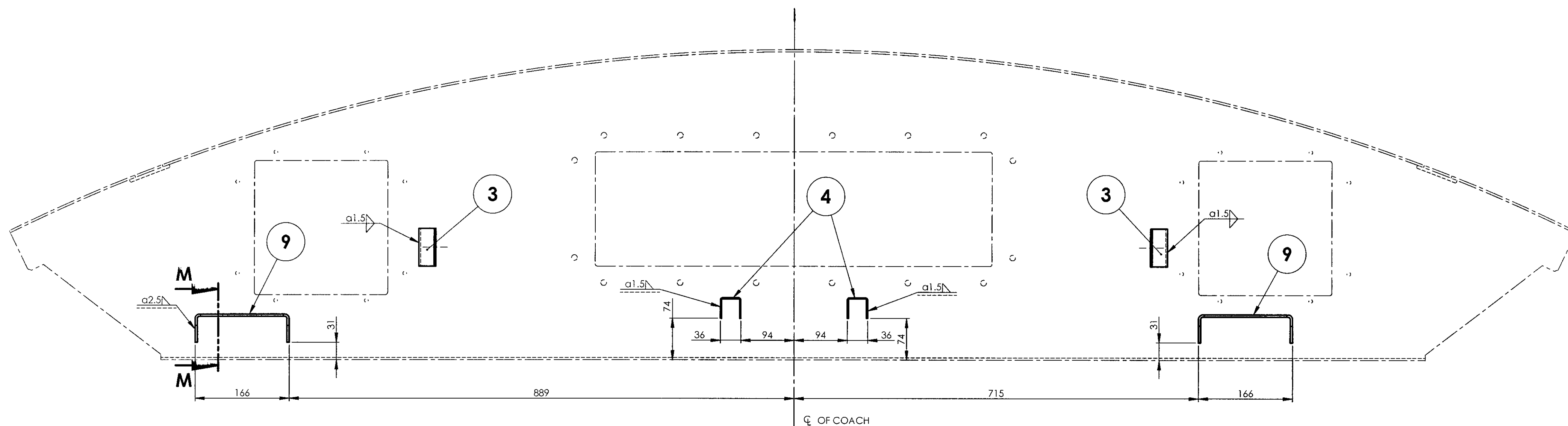
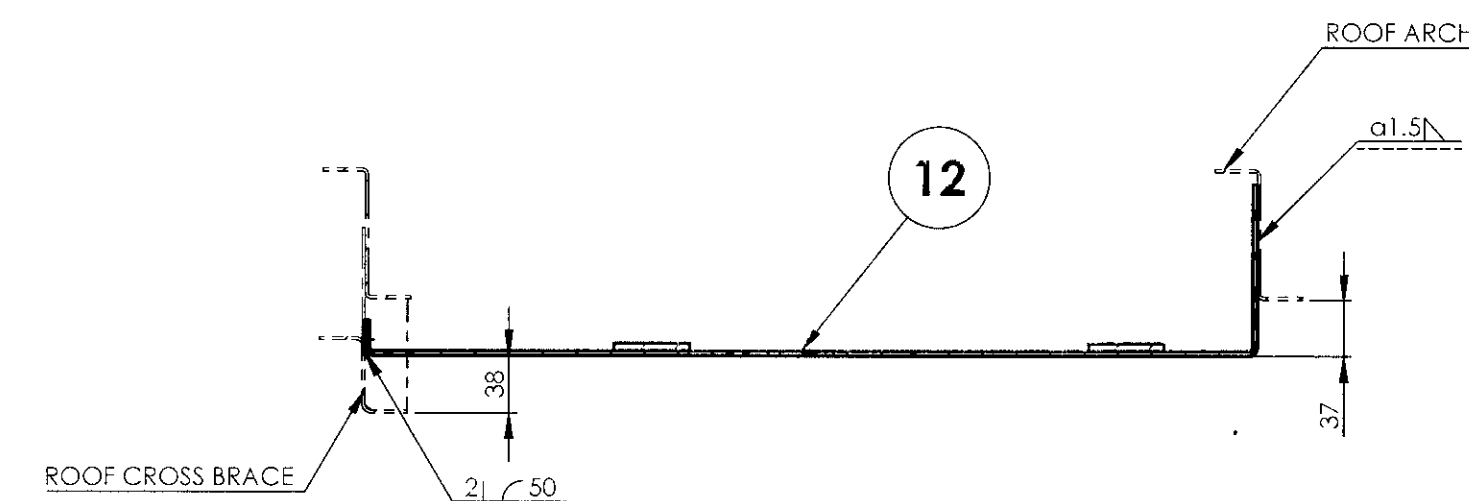
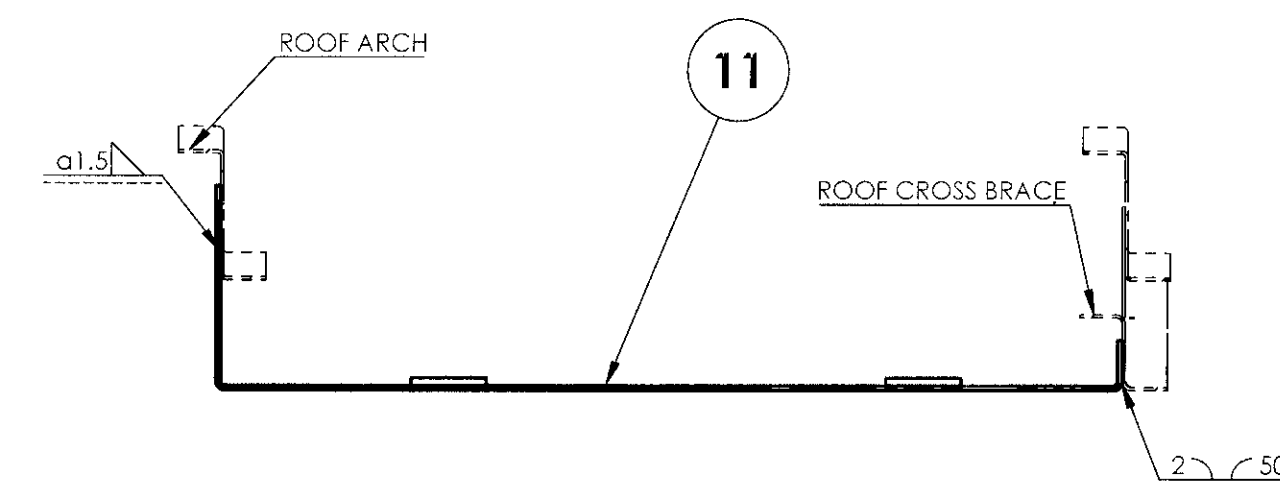
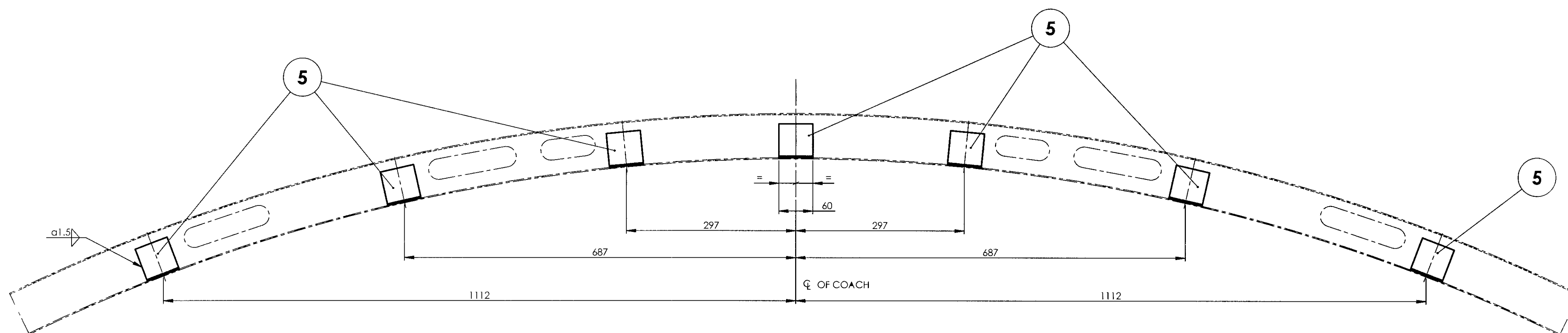
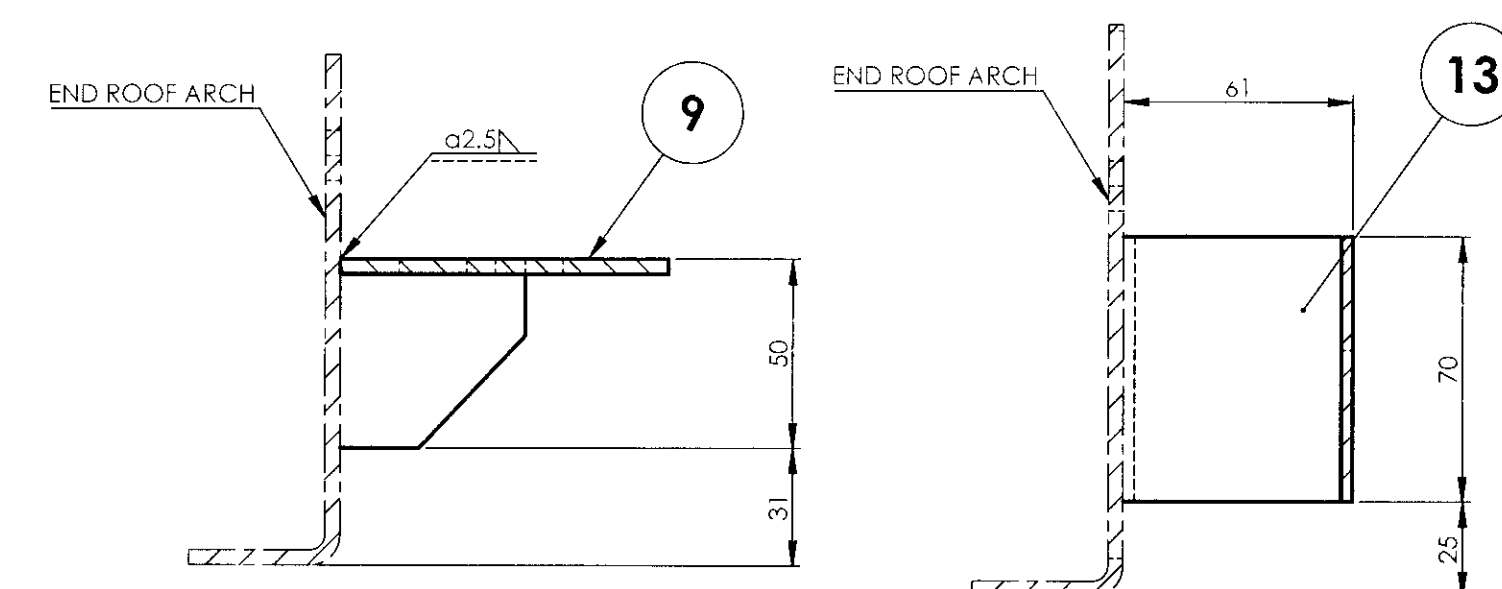
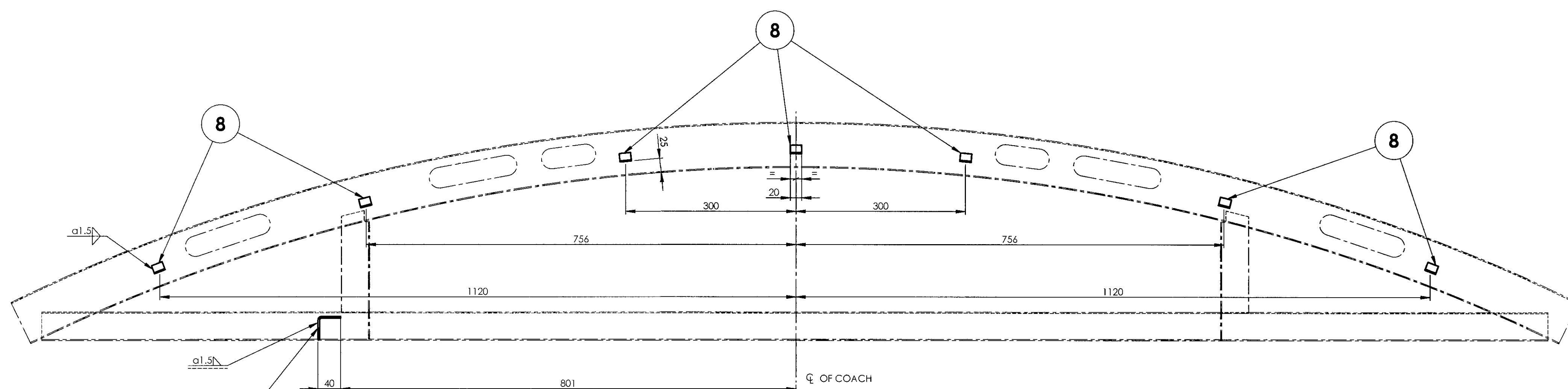
REF.DRG.NO.LH10335 ALT NIL & LH16188 ALT a

DATE OF LATEST ALT	16-07-2025	AME/SME
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ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO CT/STD-9-001.
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83016004

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

SECTION C-C
SCALE 1 : 5SECTION G-G
SCALE 1 : 5SECTION N-N
SCALE 1 : 5SECTION D-D
SCALE 1 : 5SECTION M-M
SCALE 1 : 2SECTION L-L
SCALE 1 : 2SECTION E-E
SCALE 1 : 5

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES REFER DRAWING NO IC/F/STD-9-0001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.LH10335 ALT NIL & LH16188 ALT a

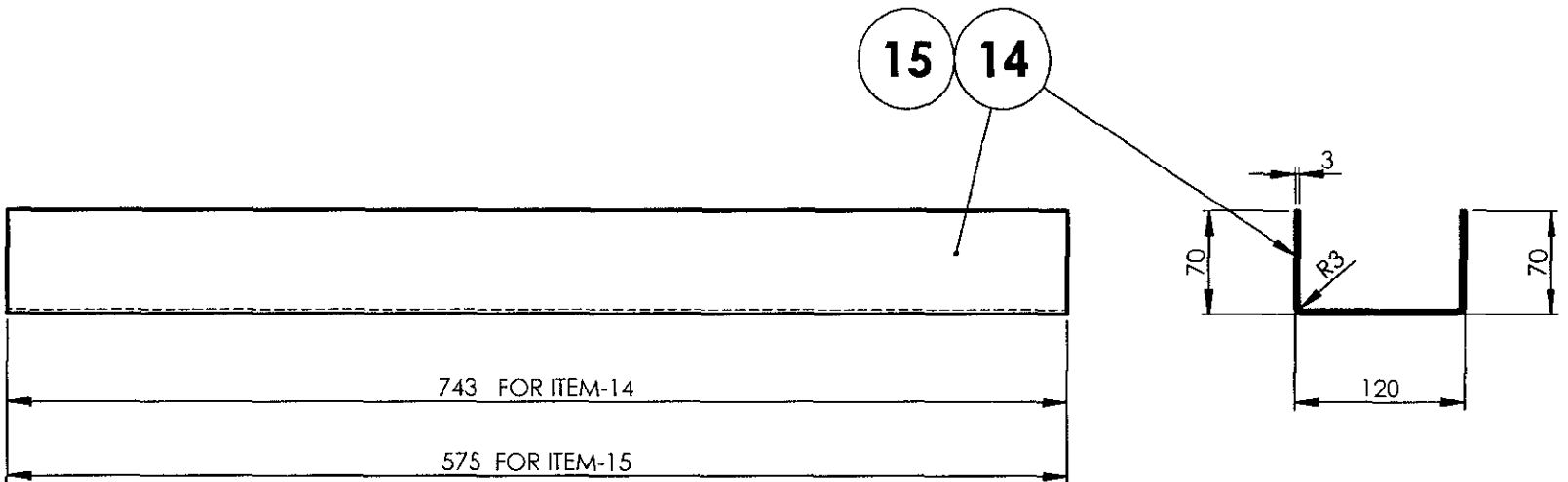
DATE OF LATEST ALT.	16-07-2025	AME/SME
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GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 36.3		WT/ASSY IN Kgs:	
SCALE 1:30		DESIGN	CHD	LWCAC/PP2	
		ALT	ALTD		
		DRN	Amal George		
INDIAN RAILWAY STANDARDS		SHEET		83016004	
INTEGRAL COACH FACTORY, CHENNAI - 600038		2 OF 3		A1	

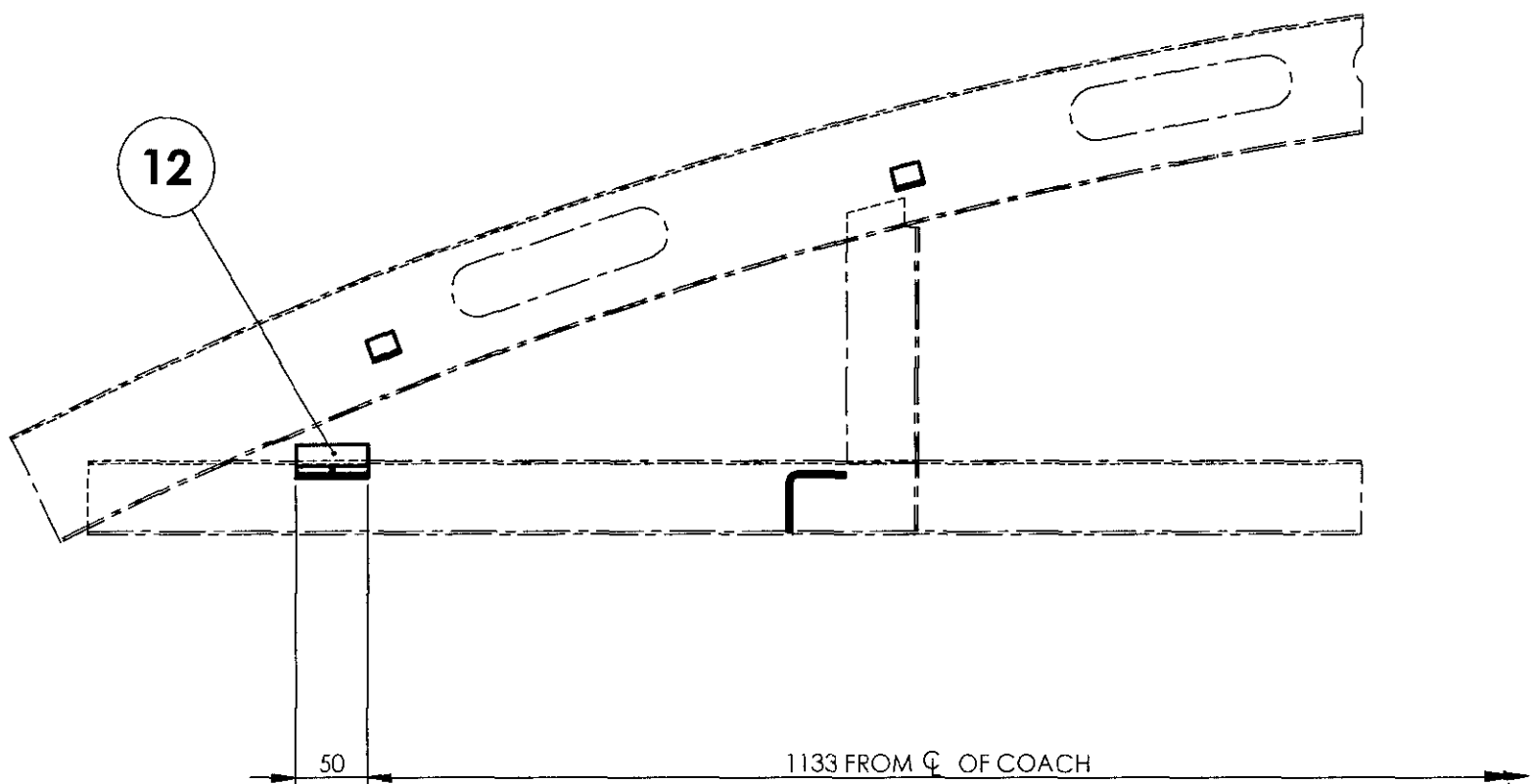
83016004

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

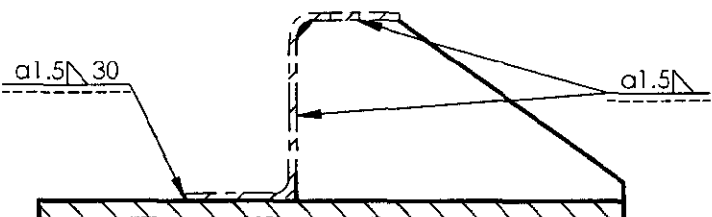
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



DETAIL FOR ITEMS-14 & 15
SCALE 1 : 5



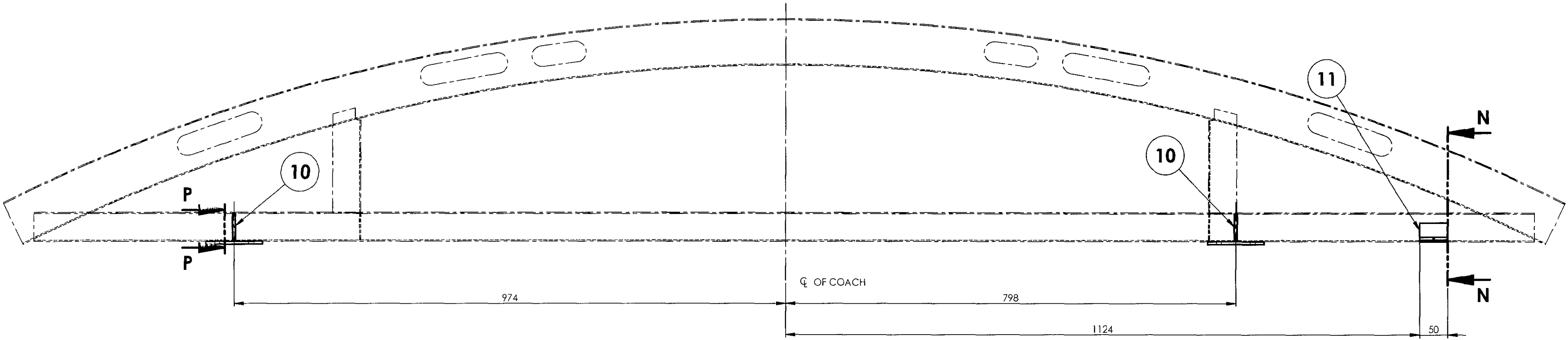
SECTION K-K
SCALE 1 : 5



SECTION P-P
SCALE 1 : 2

NOTE:

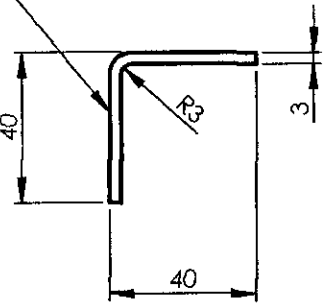
1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. ITEMS-16 TO 22 SHALL BE ALIGNED PROPERLY ALONG THE LONGITUDINAL DIRECTION.



SECTION F-F
SCALE 1 : 5

① 16 17 18 19 20 21 22

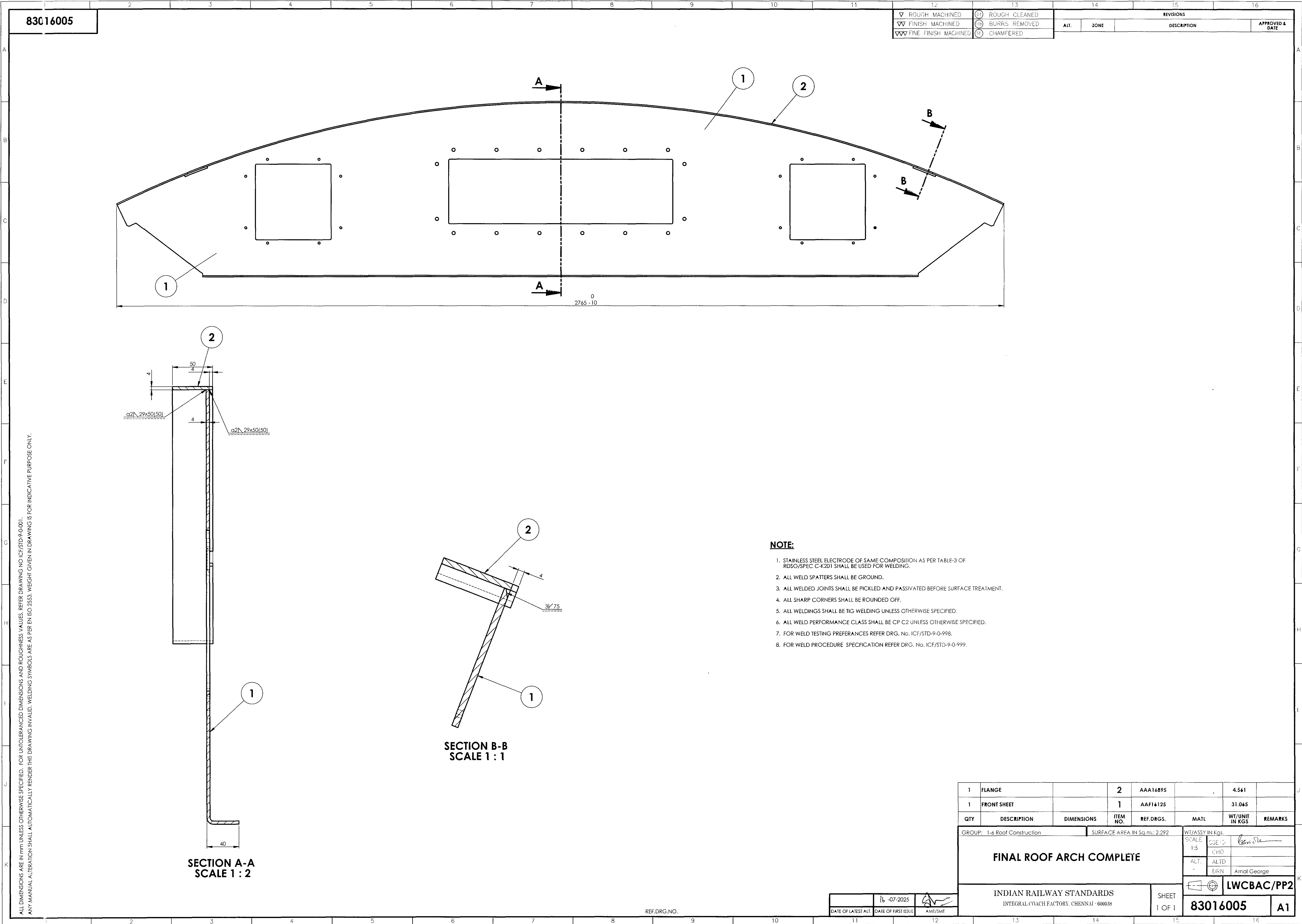
1906 FOR ITEM-16
668 FOR ITEM-17
1996 FOR ITEM-18
592 FOR ITEM-19
1991 FOR ITEM-20
1689 FOR ITEM-21
1364 FOR ITEM-22

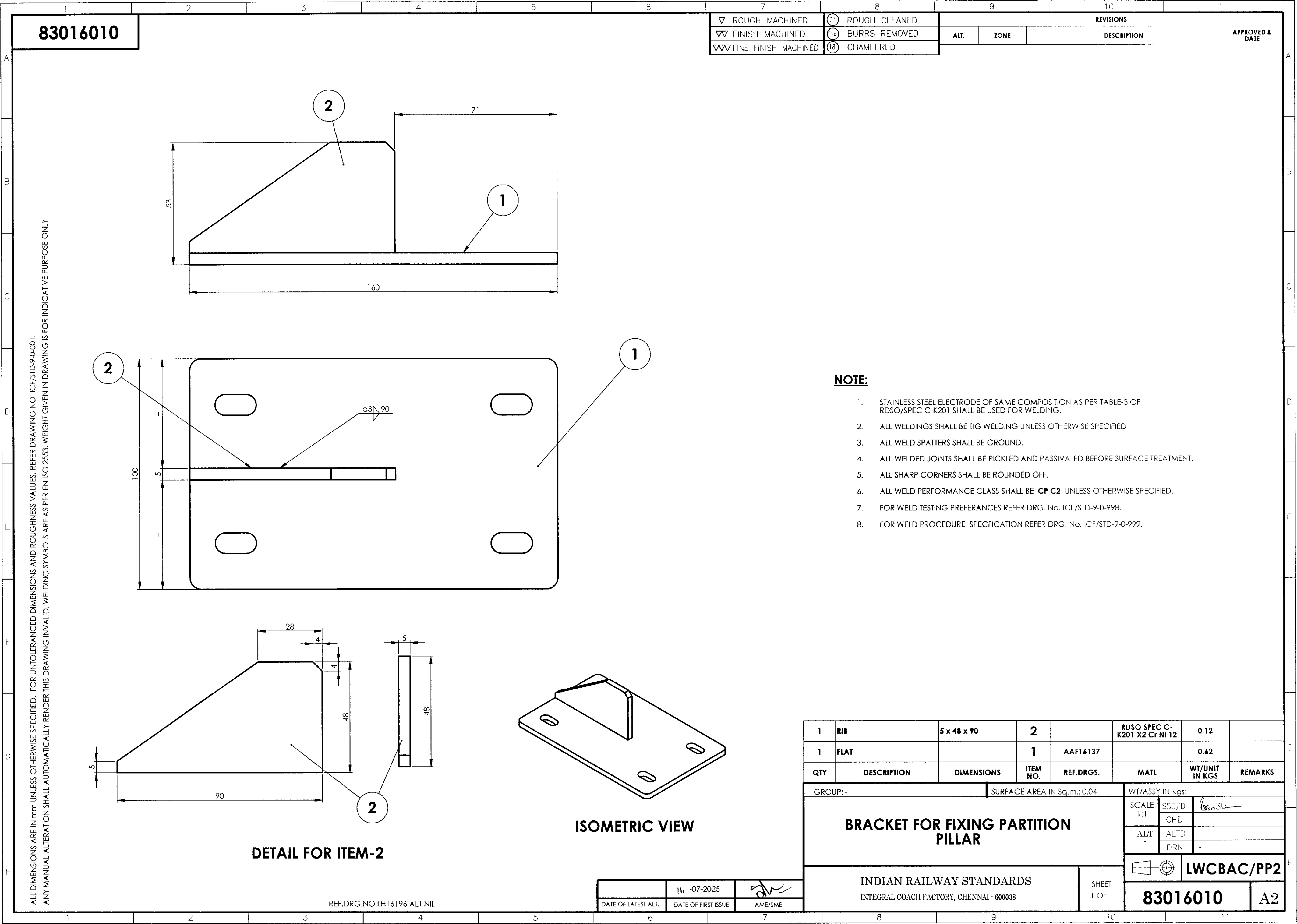


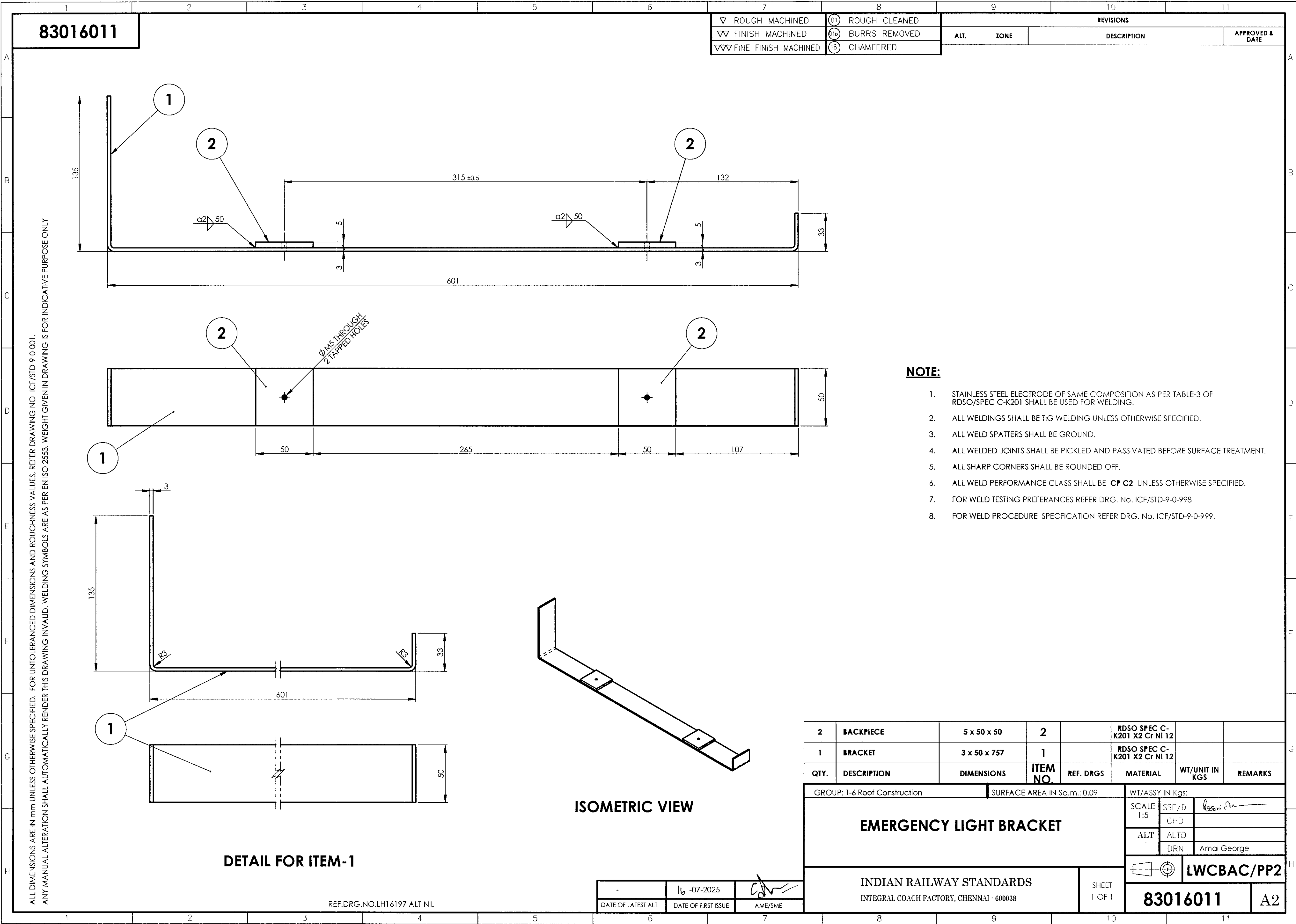
DETAIL FOR ITEMS-16 TO 22
SCALE 1 : 2

1	ANGLE FOR FIXING PARTITION	3 x 74 x 1344	22		RDSO SPEC C-K201 X2 Cr Ni 12	2.44	
1	ANGLE FOR FIXING PARTITION	3 x 74 x 1489	21		RDSO SPEC C-K201 X2 Cr Ni 12	3.04	
1	ANGLE FOR FIXING PARTITION	3 x 74 x 1991	20		RDSO SPEC C-K201 X2 Cr Ni 12	3.59	
1	ANGLE FOR FIXING PARTITION	3 x 74 x 592	19		RDSO SPEC C-K201 X2 Cr Ni 12	1.07	
2	ANGLE FOR FIXING PARTITION	3 x 74 x 1996	18		RDSO SPEC C-K201 X2 Cr Ni 12	3.40	
1	ANGLE FOR FIXING PARTITION	3 x 74 x 448	17		RDSO SPEC C-K201 X2 Cr Ni 12	1.20	
1	ANGLE FOR FIXING PARTITION	3 x 74 x 1904	16		RDSO SPEC C-K201 X2 Cr Ni 12	3.43	
1	CHANNEL FOR FIXING AWT BRACKET	3 x 248 x 575	15		RDSO SPEC C-K201 X2 Cr Ni 12	3.45	
1	CHANNEL FOR FIXING AWT BRACKET	3 x 248 x 743	14		RDSO SPEC C-K201 X2 Cr Ni 12	4.44	
1	BRACKET FOR FIXING PARTITION PILLAR		13	AAF14138		0.44	
1	BRACKET FOR EMERGENCY LIGHT		12	#3014012		1.04	
1	EMERGENCY LIGHT BRACKET		11	#3014011		1.11	
4	COMPARTMENT PART PILLAR FIXING BRACKET		10	#3014010		0.73	
2	BRACKET FOR PARTITION PILLAR		9	AAF14134		0.53	
43	BRACKET FOR CONDUIT FIXING		8	AA814026		0.034	
1	AUX. WATER TANK FIXING BRACKET		7	#5614009		1.974	
1	AUX. WATER TANK FIXING BRACKET		6	#5614010		1.891	
7	ANGLE		5	AAE14518		0.394	
4	BRACKET		4	AAA14896		0.050	
4	ANGLE		3	AA814354		0.14	
8	CHANNEL		2	AAA14899		0.253	
4	BRACKET		1	AAA14898		0.240	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRG.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 36.3		WT/ASSY IN Kgs:	
WELDING PARTS ON ROOF		SCALE 1:30	SSE/D	CHD	
		ALT.	ALTD	D/RN	
		Amal George			
INDIAN RAILWAY STANDARDS		SHEET 3 OF 3		LWCBAC/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038		83016004		A1	







1
2
3
4
5
6
7
8
9
10
11

83016012

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

⑤1 ROUGH CLEANED

⑤10 BURRS REMOVED

⑤15 CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED & DATE

315 ±0.5

87

113

592

23

5

3

5

3

1

2

2

Ø 14.5 THROUGH 2 TAPPED HOLES

50

265

50

62

50

2

1

3

23

R3

592

113

1

50

ISOMETRIC VIEW

DETAIL FOR ITEM-1

REF.DRG.NO.LH16198 ALT NIL

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.

2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.

3. ALL WELD SPATTERS SHALL BE GROUND.

4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.

5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.

6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.

7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.

8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2

BACKPIECE

5 x 50 x 50

2

RDSO SPEC C-K201 X2 Cr Ni 12

1

CHANNEL

3 x 50 x 714

1

RDSO SPEC C-K201 X2 Cr Ni 12

QTY.

DESCRIPTION

DIMENSIONS

ITEM NO.

REF. DRGS

MATERIAL

WT/UNIT IN KGS

REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.: 0.09

WT/ASSY IN Kgs:

SCALE 1:5

SSE/D

CHD

ALT

ALTD

DRN

Amal George

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

83016012

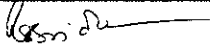
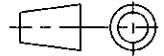
A2

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
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8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	BACKPIECE	5 x 50 x 50	2		RDSO SPEC C- K201 X2 Cr Ni 12		
1	CHANNEL	3 x 50 x 714	1		RDSO SPEC C- K201 X2 Cr Ni 12		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATERIAL	WT/UNIT IN KGS	REMARKS
GROUP: i-6 Roof Construction		SURFACE AREA IN Sq.m.: 0.09			WT/ASSY IN Kgs:		
BRACKET FOR EMERGENCY LIGHT					SCALE 1:5	SSE / D	
						CHD	
					ALT	ALTD	
						DRN	Amal George
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		LWCBAC/PP2	
						83016012	
						A2	